

September 19, 1997
Ref. No.: EOS/ETS-0997-015

National Aeronautics and
Space Administration
Goddard Space Flight Center
Greenbelt, Maryland 20771

Attention: Mr. Willie Fuller
Code 513.0
Building 32, Room S212D

Subject: Contract No.: NAS5-31000
Subcontract No.: HQ001057
EOS SLA 9 (Work Element 3.2.3 in SLA)
EOSDIS Test System (ETS) Multimode Portable Simulator (MPS)
Delivery of the Release 1.3.0 Software

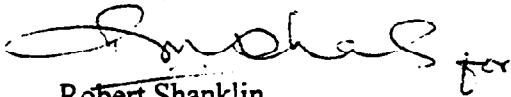
Dear Mr. Fuller:

The CNMOS contractor is pleased to deliver Release 1.3.0 of the Multimode Portable Simulator (MPS) of the ETS. Release 1.3.0 of the MPS resolves 31 Discrepancy Reports (DRs) and implements one new requirement, which was approved by the ETS Discrepancy Review Board on 7/31/97. The list of the resolved DRs is included as Attachment E. The new requirement is identified in Attachment G. This release provides an enhanced EDOS simulation mode by supporting the multicasting interface with the EOS Control Center (EOC). The PDOS operating system used by the MPS was also upgraded to version 4.2b to support multicasting. MPS Release 1.3.0 continues to use Project Data Base (PDB) 12, which is still the version in use by the EOC.

This delivery package contains 12 attachments as listed below, describing the delivery contents, build instructions, resolved and unresolved DRs, system limitations and workarounds, requirements compliance matrix changes, and release history. A completed Mission Systems Configuration Management (MSCM) form is included in Attachment L.

If you have any questions concerning this delivery, please call me at 301-794-2300.

Sincerely yours


Robert Shanklin
CNMOS EOS Project Manager

EOSDIS Test System (ETS) Multimode Portable Simulator (MPS)
Delivery of the Release 1.3.0 Software
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Delivery Package Reviewed by:



Walter Hall

CNMOS EOS Product Assurance Officer

SC

The following attachments contain the details of the MPS software.

- Attachment A - describes the delivery contents for this release
- Attachment B - describes the operational changes
- Attachment C - contains the instructions to build and install the software
- Attachment D - contains any special operating instructions
- Attachment E - contains a list of the resolved DRs
- Attachment F - contains a list of the unresolved DRs
- Attachment G - contains the matrix of requirements addressed by this release
- Attachment H - contains the known system limitations
- Attachment I - contains the release history summary matrix
- Attachment J - contains a listing of the delivery media contents
- Attachment K - contains documentation references
- Attachment L - contains the Mission Systems Configuration Management (MSCM) form

Distribution: (* - Letter Only)

<u>NASA</u>	<u>ATSC</u>	<u>Lockheed Martin</u>	<u>CSC</u>
Centa, A.	Bradbury, T.	Cordier, G	Abshire, G.*
Herring, E. *			Crowley, A.*
Johns, A. *			Hall, W.
Kelly, A.			Helton, K. (CM)
Ondrus, P.*			McGarry, J.
Smith, J.			Moore, G.
ESDIS Library			Noone, E.
			Shah, R.
			Sharma, K.*
			Zavaleta, H.
			Task File

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Task File

Attachment A - Description of Delivery Contents

The Multimode Portable Simulator (MPS) Release 1.3.0 consists of custom software only and is being delivered via one 4 mm magnetic tape (a.k.a., DAT) and four 3.5" IBM PC compatible diskettes (a.k.a., floppies). Two copies of the media are being delivered.

A soft copy of the MPS Release 1.3.0 attachments is being delivered. The attachments have been formatted on a 3.5" IBM PC diskette utilizing the MS WORD version 6.0 word processing tool.

Attachment B - Release 1.3.0 Operational Changes

The following changes have been made for Release 1.3.0 of the MPS.

1. The MPS now supports a multicasting interface with the EOS Control Center (EOC). The MPS VME operating system was upgraded to PDOS version 4.2b, and other associated MPS software changes were made. The official list of Internet Protocol (IP) addresses and User Datagram Protocol (UDP) port assignments (as of 7/1/97), which are used in support of the EDOS and EOC interface, were provided to us by Cindi Adams who is with the EOC. The multicasting IP addresses and port numbers are read in from files upon initialization of the MPS. They are ASCII files and may be customized as needed by using a standard text editor. These files are part of the system delivery and must be placed in the DBACPT directory of the MPS.

For IP addresses, the files are: ip1.op, ip1.tst, ip1.sim, and ip1.gui .

NOTE: These files have been edited for IP addresses for Building 32.

For UDP port assignments, the files are: ports.op, ports.tst, and ports.sim.

2. There is now a GUI option, under the Configure Menu, which allows the user to change the IP addresses and ports established for command reception and telemetry transmission. The actual address and port values are transparent to the user. The user can select which mode of operation to simulate, which in turn, sets the appropriate IP addresses and UDP ports, as defined in the MPS ASCII initialization files. The mutually exclusive modes of operation are:

operational (which is the default)
test
sim/training

3. The capability to enter spacecraft commands from the GUI has been added. It may be used as follows:

Enter the User Command menu and type a spacecraft command in either of the following formats:

CMD:<mnemonic>

or

CMD:xxxx,xxxx,...,xxxx;

Letters may be in upper or lower case. The colon, angle brackets, commas, and semicolon are REQUIRED SYNTAX.

If the user opts for the first format, “mnemonic” is any valid spacecraft command mnemonic from the PDB. The code constructs the command with default values for any variable fields. If an invalid mnemonic is entered, the error message “Unknown command (mnemonic) entered” is displayed on the GUI log screen.

If the second format is chosen, the user enters four-digit Hex numbers for the Destination and Descriptor words, and any data words following. At least two numbers must be entered but no more than 10 numbers may be entered. Leading zeros are required.

Any mismatch from the syntax given results in the error message “Format mismatch in user command”. Also, if the MPS cannot match the Destination and Descriptor to any commands in the PDB, the error message “Command Unknown (xxxx,xxxx) received” is displayed.

4. The capability to model the behavior of spacecraft telemetry parameters has been repaired and enhanced. It is now possible to model telemetry parameters in either Raw Data Numbers (DN) or Engineering Units (EU).

Telemetry modeling is a two-step process. The off-line Modeling Database Translator translates the ASCII modeling description files into an internal format that the on-line modeling task can use. It also translates parameter values supplied in EU to DN.

Instructions for using the Modeling Database Translator are in Appendix B of the MPS User’s Guide.

5. A new task has been added to the MPS to handle the transmission of CODAs generated by the OMDSIM software. This change is largely transparent to the operator. As part of this change, the port assignments and IP addresses for CODAs are now read in from files. These files are read upon initialization of the MPS. They are ASCII files and may be customized as needed. These files are part of the system delivery and must be placed in the DBACPT directory of the MPS.

For CODA IP addresses, the file is: coda.ip

For CODA port assignments, the file is: coda.prt

Note: The EDU, CLCW, and CDB port number and IP address files can be modified on-line and reread by the MPS by reselecting a transmission mode. This is not the case for the CODA port number and IP address files. They are only read upon initialization.

6. When CODA report transmission stops, the OMDSIM software currently fails in its attempt to automatically FTP the SCS Summary Report. At this point, the operator should observe in the terminal window from which the OMDSIM software was invoked, a message indicating the name of the SCS Summary Report, the directory where the SCS Summary Report is located, and a password prompt. The operator should simply press <ENTER> at the password prompt. This will allow the OMDSIM to continue as usual. The operator will then need to manually FTP the SCS Summary Report and a Signal File. To manually FTP the SCS Summary report, the operator will first need to bring up a new terminal window. The operator should then change the directory to where the SCS Summary Report is located. Once there, the operator can create a Signal File by typing, “touch <SCS Summary Report File Name>.XFR”. The operator can then FTP the SCS Summary Report first and then the Signal File to their proper destination.

7. Some limited support for transmitting rate buffered data files to the EOC is provided in Release 1.3.0. Previously these files were to have been transmitted via KFTP, now the requirement is for FTP. At the present time, the user must terminate the MPS session in order to free up system resources to initiate an FTP session needed to FTP the simulated rate buffered data files and signal files. A future release will attempt to bring this function within the MPS application.

Rate buffered files are created by the MPS and reside in the /DBACPT directory from where the MPS is running. For example, if the MPS is run from the 10:/integ/release130 directory, the Rate Buffered File will reside in the 10:/integ/release130/DBACPT directory. The following procedure has been developed to transfer Rate Buffered Files from the VME machine to the user's destination. The mouse can be used to click and drag on Rate Buffered filenames, and the UNIX “touch” command is used to create a signal file.

The following steps can be used to transfer a Rate Buffered File:

- 1) With the MPS down, establish a FTP session from the console as follows:

```

> ftp
> open 198.118.197.66          /* VME 177 card */
> userid: soc / password: soc   /* userid, password */
> cd < your path >/DBACPT      /* location of Rate Buffered File */
> bin                           /* file is binary */
> ls *.RBD                     /* display list of Rate Buffered Files
*/
> get <filename>                /* use mouse to point, drag and
select
                                         file */
> bye                          /* end FTP session */

```

2) From the console, create a signal file:

```
> touch "<filename>.XFR"          /* use mouse to point, drag and  
select                                              filename */
```

3) FTP files to destination:

```
> ftp  
> connect <your destination>      /* establish ftp session */  
> <userid> <password>            /* enter userid, password */  
> bin                                /* Rate Buffered file is in binary  
format  
                                         */  
> put <filename>                /* Rate Buffered File (*.RBD) */  
> put <filename>                /* Signal File (*.XFR) */  
> bye                                /* End ftp session */
```

Attachment C - Release 1.3.0 Build Instructions

C.1 MVME187 SW:

- a) Put DAT delivery tape into 4mm tape drive located in VME chassis.
- b) At M177 console, copy compressed tar file to system disk:
`tar xfbv stape:0 100`
- c) FTP compressed tar file to MPS MVME187 (use si_t account).
- d) At M177 console, delete compressed tar file from system disk:
`dl MPS_1.3.0.tar.Z`
- e) Log onto the M187 under the si_t account.
- f) Uncompress the compressed tar file:
`uncompress MPS_1.3.0.tar`
- g) Extract the installation script from the tar file:
`tar xvf MPS_1.3.0.tar ./ets_install`
- h) Execute the installation script:
`ets_install MPS target_directory MPS_1.3.0.tar`
where *target_directory* is the directory where the installation will occur
- i) If these values are not given in the command line, the installation script allows you to specify them during execution.
- j) Answer the prompts from the ets_install script. The default answer is given in square brackets “[]”.
- k) Review the installation results file (ets_build.log) for errors.

C2. MVME177 SW:

- a) Create the following source file directories on the PC:
`gt_dir, ds_dir, sm_dir, to_dir, inc, xt_dir, ty_dir, ad_dir, op_dir, mc_dir,
di_dir, ti_dir, sc_dir, ci_dir, ut_dir, mt_dir, network, in_dir, mo_dir, mdb_gen`
- b) Copy all source files from 3.5" floppys (Diskette 1 and Diskette 2) to their corresponding directories on the PC. Make sure all the files (header, etc.) are copied from the floppies.
- c) Edit the CC.BAT file that is found in the C:\PDOS\BIN directory of the PC to point to the newly created “inc” directory.
- d) All source files must be compiled and linked. **Compile the contents of *ut_dir* first.** For example, in the “gt_dir” directory, first compile all the source files by typing “comp_gt”. When the compilation is finished link the files by typing “link link_gt”. An executable named “link_gt.sy”

will be created, this must be renamed to “xgt”. The contents of mdb_gen are the offline Modeling Database Translator. Each directory has its own compile batch file and link file as shown in the table below:

directory	compile batch file	link file(s)	executable
ut_dir	comp_ut	(no link file)	
gt_dir	comp_gt	link_gt	xgt
ds_dir	comp_ds	link_ds	xds
sm_dir	comp_sm	link_sm	xsm
to_dir	comp_to	link_to	xto
xt_dir	comp_xt	link_xt	xxt
ty_dir	comp_ty	link_ty	xty
ad_dir	comp_ad	link_ad	xad
op_dir	comp_op	link_op	xop
mc_dir	comp_mc	link_mc	xmc
di_dir	comp_di	link_di	xdi
ti_dir	comp_ti	link_ti	xti
sc_dir	comp_sc	link_sc	xsc
ci_dir	comp_ci	link_ci	xcii
mt_dir	comp_mt	link_mt	xmt
in_dir	comp_in	link_in	xin
mo_dir	comp_mo	link_mo	xmo
network	comp_net	udpt1	udpt1.sy†
		udpt2	udpt2.sy†
		send	send.sy†
		momdsim	momdsim.sy†
mdb_gen	comp_mdb	link_mdb	xmdb

- e) On the VME and the PC, create a directory structure like the following, where [root] is the base directory. It may be a subdirectory itself.

```
[root]    \ACPT
          \DBACPT
```

- f) All executable files must be renamed and brought over to the VME. Rename and copy the *.sy files in each directory to the VME [root]/ACPT directory created according to the executable column above (except xmdb, which is treated differently according to directions given below.) **The four network files marked with “†” are copied without being renamed.**
- g) The remaining VME files are supplied on 3.5” floppy diskettes. The files on the diskettes are copied to the VME as per the following instructions.
- h) Diskette 3 has the following directory structure:

```
<root>    \BLD1_3    \ACPT
          \DBACPT
```

The root directory contains a single file, PKUNZIP.EXE, which is supplied to ensure that unzip operations work correctly.

The BLD1_3 directory contains the files RUNACPT and CLEAR. Use FTP to copy these files to the [root] directory on the VME.

The BLD1_3\ACPT subdirectory contains copies of all the executables as well as *ac.bkp*. Use FTP to copy the *ac.bkp* file to the [root]/ACPT directory of the VME. If ever the system is not built directly from the delivered source code, use FTP to copy the executables to the [root]/ACPT directory of the VME.

The BLD1_3\DBACPT subdirectory contains several data files necessary for operation of the MPS. All of the files in the following list shold be present in this directory. Use FTP to copy those files to the [root]/DBACPT directory of the VME.

```
ip1.op
ip1.tst
ip1.sim
ip1.gui
ports.op
ports.tst
ports.sim
coda.ip
coda.prt
xmdb
contig.ac
rename.ac
mdl_tlm.mdb
mdl_algs.mdb
mdl_tbls.mdb
tlm_poly.pdb
tlm_calc.pdb
mdl_tlm.inp
mdl_algs.inp
mdl_tbls.inp
```

- i) Copy the xmdb executable image created in step c to the DBACPT directory.
- j) Diskette 4 contains a single ZIP file, PDBVER12.ZIP, which contains all of the Project Data Base (PDB) files necessary for the VME DBACPT directory. Use PKUNZIP to explode this file onto the PC's hard drive. The following commands are suggested:

```
c:
cd \[root]\DBACPT
\ZIP\PKUNZIP -e A:\PDBVER12
```

- k) Next, use FTP to copy all of the files to the [root]/DBACPT directory of the VME. The filenames must be in lower case on the VME.
- l) After the copy operations are complete, many of the files will need to have their file type attribute changed from "SY" to "AC". The commands to do this are:

```
10:
cd [root]
sa RUNACPT,ac
sa CLEAR,ac
```

```

cd ACPT
sa ac.bkp.ac

cd ..../DBACPT
sa contig.ac,ac
sa rename.ac,ac
sa ip1.op,tx
sa ip1.tst,tx
sa ip1.sim,tx
sa ip1.gui,tx
sa ports.op,tx
sa ports.sim,tx
sa ports.tst,tx
sa coda.ip,tx
sa coda.prt,tx

```

- m) When FTP is used to copy PDB files, the files may become non-contiguous on the disk. While non-contiguous files will work perfectly well, the time needed for MPS bootup can lengthen considerably. Enter the following at the VME177 console to make the PDB files contiguous:

```

cd [root]/DBACPT
contig.ac

```

- n) Now run the “rename.ac” file to rename files whose names became truncated in previous steps. The names of the last five files in the list given above in step h) became truncated when the files were ported to the PC. The rename.ac function will rename the files according to the following table:

tlm_poly.pdb	tlm_poly_xxx.PDB
tlm_calc.pdb	tlm_calcurve_xxx.PDB
mdl_tlm.inp	mdl_tlm_yyy.inp
mdl_algs.inp	mdl_algs_yyy.inp
mdl_tbls.inp	mdl_tables_yyy.inp

xxx is the current PDB version. With this release, it is 012. yyy is the Modeling Database version. With this release, it is 001.

C3. Execution Setup Procedures:

- a) Many environment variables point to files and directories. The following files and directories must exist:

```

# ETS
$ETS_RUN_ROOT/runtime/params (directory)
$ETS_RUN_ROOT/runtime/log (directory)
$ETS_RUN_ROOT/runtime/omd (directory)
$ETS_RUN_ROOT/runtime/scenario (directory)
$ETS_RUN_ROOT/runtime/help (directory)

# MPS
$ETS_PARAMS_DIR/mui_init.params
$ETS_PROC_LOG_DIR

```

```

# Menu Controller
$ETS_RUN_ROOT/mmc_sample_icon_file (icon file)
$ETS_RUN_ROOT/runtime/temp (directory)
$ETS_RUN_ROOT/mmc (executable)
$ETS_RUN_ROOT/mmc_kill_processes.ksh (script file)
$ETS_RUN_ROOT/mmc_lrs_omd_start.csh (script file)
$ETS_RUN_ROOT/mmc_lrs_omd_stop.csh (script file)
$ETS_RUN_ROOT/mmc_lrs_tpce_start.csh (script file)
$ETS_RUN_ROOT/mmc_lrs_tpce_stop.csh (script file)

# OMDSIM
$ETS_RUN_ROOT/om_scenario_manager (executable)
$ETS_RUN_ROOT/om_scheduler (executable)
$ETS_RUN_ROOT/om_transmission_task (executable)
$ETS_RUN_ROOT/om_receiver (executable)
$ETS_RUN_ROOT/om_rec_sub (executable)
$ETS_RUN_ROOT/omdsim (executable)

# Rate Buffer Utility
$ETS_RUN_ROOT/rate_buffer (directory)
$ETS_RUN_ROOT/rbu (executable)

# Command Archive
$ETS_RUN_ROOT/cmd_archive (directory)
$ETS_RUN_ROOT/cau (executable)

```

NOTE: Filenames are limited to 32 characters; this includes the extension. Paths to files are limited to 80 characters. Full file specifications (path/filename) are thus limited to 112 characters.

- b) Ensure the environment variables in ets_setup have been set (via the .login file).
- c) When installation is complete, add the following lines to your .login or .cshrc file in your home directory:

```

if (-e ~/etslogin) then
source ~/etslogin
else
echo ~/etslogin does not exist!
endif
cd $ETS_RUN_ROOT

```

Attachment D - Special Operating Instructions

There are no special operating instructions for the MPS Release 1.3.0. Standard operating procedures are included in the User's Guide for the ETS Multimode Portable Simulator. A red-lined version is available and located with the MPS unit in Building 32, Room C210. A revised copy of the MPS User's Guide for Release 1.3.0 will be made available on the ETS homepage by mid-October.

Attachment E - Resolved Discrepancy Reports (DR)

The following list of DRs were closed with MPS Release 1.3.0. The DRs are listed in the table below, which provides the DR Number, Subsystem name, Status, Severity, and a short description. A full description of each DR follows the summary table. Complete DR information can be obtained via the Internet at address <http://iree.gsfc.nasa.gov/dtts/> (directly) or from the ESDIS Integration and Test home page at <http://esdis.gsfc.nasa.gov/integ/integ.html>.

Summary of Closed Discrepancy Reports

Critical(1)	Urgent(2)	Routine(3)
1	16	14

Status Definitions

N - New	A - Assigned Analysis	R - Assigned Resolution
D - Delivered	V - Verified	C - Closed
W - Withdrawn	P - Postponed	X - Duplicate

DR Number	IDR Number	Sub Syst	Status	Sev	Description
SMODr00052		MPS	C	2	ETS Laptop Lockup
SMODr00058		MPS	C	2	No Error Msgs In The Status Log
SMODr00059		MPS	C	2	Incorrect Command Increment
SMODr00077		MPS	C	2	Hard Coded External Interfaces
SMODr00082		MPS	C	3	Compile Error
SMODr00098		MPS	C	2	CLCW Transmission Error
SMODr00111		MPS	C	2	Modeling Function Failure
SMODr00129		MPS	C	3	EDOS service header in error
SMODr00148		MPS	C	3	Source files with wrong identifier
SMODr00168		MPS	C	1	Multicasting Not Supported
SMODr00169		MPS	C	2	Multi-UDP Port #s Not Supported
SMODr00171		MPS	C	3	User S/C CMD Entry Unsupported
SMODr00201		MPS	C	3	MPS Exec Inaccessible From Menu Controller
SMODr00261	ETS0332	MPS	C	3	Expected frame sequence # did not update
SMODr00263	ETS0334	MPS	C	3	Wrong value displayed for CMD header
SMODr00264	ETS0337	MPS	C	2	Closing Comm Link Causes Error Message

SMOdr00266	ETS0339	MPS	C	2	Wrong APID for 1K diag & stndby tlm
SMOdr00268	ETS0340	MPS	C	3	Misspelled Word In ABOUT Message
SMOdr00271	ETS0350	MPS	C	3	Command Error Counter Increment by 2
SMOdr00272	ETS0358	MPS	C	2	Rate buffer name does not match ICD
SMOdr00273	ETS0359	MPS	C	2	VCDU chnnl 1 display stopped refreshing
SMOdr00275	ETS0361	MPS	C	2	Rate buffer file not created
SMOdr00278	ETS0366	MPS	C	3	Incorrect message when config tlm packet parm
SMOdr00281	ETS0383	MPS	C	3	Reselecting Window Clears Data
SMOdr00282	ETS0384	MPS	C	2	Intermittent problem with dropping EDUs
SMOdr00356	00012441	MPS	C	3	Incorrect command executed
SMOdr00358	ETS0460	MPS	C	3	Error having HK and PDB file on simultaneously
SMOdr00359	ETS0461	MPS	C	3	User was able to reset TLM while data on
SMOdr00421	ETS0474	MPS	C	2	MPS went into endless loop
SMOdr00431		MPS	C	2	Memory Dump Command Processing
SMOdr00440		MPS	C	2	Incorrect ATC Format

Total records found = 31

DR SMOdr00052 **Related NCR #:** **Submitted: 961114**
Status: CLOSE **System: ETS** **Closed: 970917**
TITLE: "ETS Laptop Lockup"
***** Problem (for SMOdr00052) *****
Attempted to access M187 board through MPS 1 laptop. When EXCEED was brought up, the laptop locked up. Powered off the laptop and attempted to restart EXCEED the laptop locked again.
***** Analysis (for SMOdr00052) *****
Switched to spare laptop and problem has not recurred.

DR SMOdr00058 **Related NCR #:** **Submitted: 961119**
Status: CLOSE **System: ETS** **Closed: 970917**
TITLE: "No Error Msgs In The Status Log"
***** Problem (for SMOdr00058) *****
Sent Command (In EDOS Mode) to MPS. I had previously configured EDOS ground Msg Header Validation expected values as follows: Source: 0, Dest: 0, S/C ID: 0 Msg type: 0, and Seq No.: 0. The command I sent had EDOS Ground Msg Header values set as follows: Source: 04 (hex), Dest: 01 (hex) , S/C ID: 00A9 (hex), Msg Type: 03 (hex), and Seq. No.:0. The MPS should have placed error msgs in the status log indicating that sent values did not match the expected values - it did not.
***** Analysis (for SMOdr00058) *****
Added code to the ci task to validate incoming Command Data Blocks (CDBs) against expected values.

DR SMOdr00059 **Related NCR #:** **Submitted: 961119**
Status: CLOSE **System: ETS** **Closed: 970917**
TITLE: "Incorrect Command Increment"
***** Problem (for SMOdr00059) *****
Sent a cmd [EDOS Mode] data block which continued on EDOS ground msg header & 2 CLTUs -> 1 (AST_Turn_Off_C_SDP) & 2 (AST_Turn_off_C_SDP). The MPS acted like it received only one command => "Command AST_Turn_Off_C_SDP Received" => Command counter on CMD status window incremented to 1.
***** Analysis (for SMOdr00059) *****
Added code to the in task (formerly the udpcmd task) to queue incoming CDBs and also added code to the ci task to queue the CLTUs within the CDBs.

DR SMOdr00077 **Related NCR #:** **Submitted: 961120**
Status: CLOSE **System: ETS** **Closed: 970917**

TITLE: "Hard Coded External Interfaces"

***** Problem (for SMOdr00077) *****

MPS S/C Sim S/W requires recompile if addresses of external interfaces change.

***** Analysis (for SMOdr00077) *****

External addresses are no longer hard-coded, but instead read in from editable files (ip1.gui, ip1.op, etc....) during system initialization.

DR SMOdr00082 Related NCR #: Submitted: 961120

Status: CLOSE System: ETS

Closed: 970918

TITLE: "Compile Error"

***** Problem (for SMOdr00082) *****

Building MPS gui => received warning in ipc directory =>. "In function "xxx_ipc_select" (incompatible pointer type).

***** Analysis (for SMOdr00082) *****

This is an informational warning due to reused code. It does not affect operations of the MPS.

DR SMOdr00098 Related NCR #: Submitted: 961120

Status: CLOSE System: ETS

Closed: 970917

TITLE: "CLCW Transmission Error"

***** Problem (for SMOdr00098) *****

Current implementation of CLCW transmission in EDOS mode does not appear to be correct. ICD (EDOS-EGS) indicates CLCW should be transmitted on a separate port & simultaneously with the EDUS => this does not occur.

***** Analysis (for SMOdr00098) *****

CLCWs are now automatically transmitted to their proper destinations when telemetry is started in EDOS mode.

DR SMOdr00111 Related NCR #: Submitted: 961120

Status: CLOSE System: ETS

Closed: 970917

TITLE: "Modeling Function Failure"

***** Problem (for SMOdr00111) *****

Testing modeling functionality - attempted to model mnemonic which had a static value for its first 2100 secs => tlm values were not static. Attempted to model mnemonic which was decreasing in its first 2100 secs => tlm values were increasing to 255 then started over again = attempted to override modeling type => set as static => tlm values continued as if modeling type had not been overridden.

***** Analysis (for SMOdr00111) *****

The redesign effort resulted in significant changes to the offline modeling database input file translator to enable it to perform Engineering Unit to Raw Data Number conversions. Only minor changes were made to the online modeling task.

DR SMOdr00129 **Related NCR #:** **Submitted: 961127**

Status: CLOSE

System: ETS

Closed: 970917

TITLE: "EDOS service header in error"

***** Problem (for SMOdr00129) *****

Rate buffered data should have the playback EDOS service header flag set - the EDUs in the rate buffered file should be playback, not real-time data.

***** Analysis (for SMOdr00129) *****

All EDUs in rate buffered data files have playback flag set.

DR SMOdr00148 **Related NCR #:** **Submitted: 961127**

Status: CLOSE

System: ETS

Closed: 970918

TITLE: "Source files with wrong identifier"

***** Problem (for SMOdr00148) *****

sc_main.c and a number of other source files contained XTTS headers. Headers and comments in all source files need to be updated for MPS.

***** Analysis (for SMOdr00148) *****

This is an artifact of software reuse. Several delivered C files still have old XTTS headers/prologs (from TRMM PSS). We do not intend to go back now and specifically change these files. If any of these files need rework for future DR resolution, the recommended filename/prolog changes will be made.

DR SMOdr00168 **Related NCR #:** **Submitted: 961219**

Status: CLOSE

System: ETS

Closed: 970917

TITLE: "Multicasting Not Supported"

***** Problem (for SMOdr00168) *****

MPS Release 1.0 does not support multicasting (m/c). EDOS-EOC interface requires bi-directional multicasting: EDOS receives command data blocks (CDB) and transmits EDUs and CODAs.

***** Admin Comments (for SMOdr00168) *****

12/23/96

This DR will not be completed until March because vendor will not be able to provide upgrades to the operating system until mid-February.

***** Analysis (for SMOdr00168) *****

PDOS BSD socket libraries were updated to support multicasting. Tlm/Cmd UDP networking software was rewritten to support multicasting. Code was added to telemetry software to handle multiple ports/addresses.

DR SMOdr00169 **Related NCR #:** **Submitted: 961219**

Status: CLOSE **System: ETS**

Closed: 970917

TITLE: "Multi-UDP Port #s Not Supported"

***** Problem (for SMOdr00169) *****

MPS Release 1.0 does not support multiple, unique UDP port numbers. Up to 16 ports are needed for real time EDUs, 4 for CLCW EDUs, 2 for CODAs, and 2 for CDBs.

***** Admin Comments (for SMOdr00169) *****

12/23/96

Refer to Admin Comment written on DR 00168.

***** Analysis (for SMOdr00169) *****

Functionality was added to the MPS GUI to configure the MPS in EDOS mode for multiple ports / addresses. Functionality was also added to the simulation software to handle multiple ports / addresses.

DR SMOdr00171 **Related NCR #:** **Submitted: 961219**

Status: CLOSE **System: ETS**

Closed: 970917

TITLE: "User S/C CMD Entry Unsupported"

***** Problem (for SMOdr00171) *****

MPS Release 1.0 does not provide the operator with a real-time capability to enter spacecraft commands.

***** Analysis (for SMOdr00171) *****

From the GUI main screen, the user will click on Control then click on User Command and enter either CMD:<mnemonic> or CMD:binary format

DR SMOdr00201 **Related NCR #:** **Submitted: 970122**

Status: CLOSE **System: ETS**

Closed: 970918

TITLE: "MPS Exec Inaccessible From Menu Controller"

***** Problem (for SMOdr00201) *****

ETS Release 1 + Patch (NRZ-M and End-item Verifier) The MPS main window is not accessible from the ETS MPS Menu Controller. The instructions in the MPS User Guide starting around Section 2.1.5.2 were followed. Answered "Yes" to the questions dealing with the termination of the MPS Exec application. Closed the ETS MPS Menu Controller as instructed and answered "Yes" to the termination of the application started by the menu controller and to the continuation of the shutdown. Upon selecting the MPS Exec button on the ETS MPS Menu Controller again, it was discovered that the problem still existed and the same series of question dialogs appeared. The MPS main window never appeared. Workaround (provided by developer): Invoke the

MPS Exec directly via the executable called "mps" in background (e.g., "mps &"). The MPS main window appeared.

***** Analysis (for SMOdr00201) *****

Condition only occurs as result of abnormal termination of MPS. In the event it happens, a documented workaround permits continued operation. The User's Guide contains adequate guidance.

DR SMOdr00261 Related NCR #: ETS0332 Submitted: 970402

Status: CLOSE System: ETS Closed: 970917

TITLE: "Expected frame sequence # did not update"

***** Problem (for SMOdr00261) *****

Sent control command to modify the next expected frame sequence no. (V(R)) and make it = 64. The command counter, CLCW, and FARM-B counter updated correctly, but the next expected frame sequence no. (NEFC) remained=0 on the command status display.

***** Analysis (for SMOdr00261) *****

Label on the MPS GUI is incorrect: NEFC should be changed to RTYP (CLCW Report Type). The command counter represents the NEFC. Changed the relevant .uil file using the bx tool and regenerated the C code.

DR SMOdr00263 Related NCR #: ETS0334 Submitted: 970402

Status: CLOSE System: ETS Closed: 970917

TITLE: "Wrong value displayed for CMD header"

***** Problem (for SMOdr00263) *****

The wrong value is displayed for the command block header parameter in the session log in the main window. The command block header parameter is configured to 'off' (value should be 0) state but a value of one is displayed in the session log. The correct values (0) are displayed in the session log when the other parameters in the command validation window are configured to the 'off' state.

***** Analysis (for SMOdr00263) *****

Made changes to muc_cfg_cmd_val_funcs.c to correct command block header toggle behavior.

DR SMOdr00264 Related NCR #: ETS0337 Submitted: 970402

Status: CLOSE System: ETS Closed: 970918

TITLE: "Closing Comm Link Causes Error Message"

***** Problem (for SMOdr00264) *****

When closing the communication link in OMDSIM the following message 'muc_socket: error reading socket-unable to read socket for OMDSIM' is always sent to the session log. Impact to OMDSIM processing is unknown at this time, but the message appears to be reporting an error.

***** Analysis (for SMOdr00264) *****

This is an informational/warning message. Socket errors are outside the purview of the OMDSIM. It is probably due to the operating system state on exit. No other problem connected to this message manifests itself (e.g., unable to reconnect).

DR SMOdr00266**Related NCR #: ETS0339****Submitted: 970402****Status: CLOSE****System: ETS****Closed: 970917****TITLE: "Wrong APID for 1K diag & stndby tlm"**

***** Problem (for SMOdr00266) *****

The wrong APIDs for 1K diagnostic and standby telemetry are being displayed in the data type field in the telemetry status window, i.e., 1K diagnostic would be 6 vice 3 and standby would be 5 vice 1.

***** Analysis (for SMOdr00266) *****

Standby APID now displayed as 5 and Diagnostic 1K APID as 6.

DR SMOdr00268**Related NCR #: ETS0340****Submitted: 970402****Status: CLOSE****System: ETS****Closed: 970917****TITLE: "Misspelled Word In ABOUT Message"**

***** Problem (for SMOdr00268) *****

The word 'low rate' is misspelled on About MPS display under the HELP option. Also, the word 'and' in the sentence 'MPS and verifies command ...' is out of context. Remove word 'and'.

***** Analysis (for SMOdr00268) *****

Corrected misspellings in the relevant .help file.

DR SMOdr00271**Related NCR #: ETS0350****Submitted: 970402****Status: CLOSE****System: ETS****Closed: 970917****TITLE: "Command Error Counter Increment by 2"**

***** Problem (for SMOdr00271) *****

The command errors counter increment by two on the command status display when receiving invalid commands with an incorrect length. The following messages were received in the MPS log 'Invalid CLTU received - incorrect length' and 'no sync in command'.

***** Analysis (for SMOdr00271) *****

Modified the ci task to not increment the command error counter on the receipt of commands with an incorrect length.

DR SMOdr00272 **Related NCR #:** ETS0358 **Submitted:** 970402
Status: CLOSE **System:** ETS **Closed:** 970917

TITLE: "Rate buffer name does not match ICD"

***** Problem (for SMOdr00272) *****

The rate buffer data file name doesn't match the ICD. The time field and unique file number field have leading blanks instead of zeros (i.e., R042000+071144523+01.rbd) also; rbd should be all caps.

***** Analysis (for SMOdr00272) *****

Rate buffer file names now match convention specified in EDOS-EGS ICD.

DR SMOdr00273 **Related NCR #:** ETS0359 **Submitted:** 970402
Status: CLOSE **System:** ETS **Closed:** 970917

TITLE: "VCDU chnnl 1 display stopped refreshing"

***** Problem (for SMOdr00273) *****

The monitor VCDU channel 1 display stopped refreshing every 5 seconds at least two times while transmitting housekeeping telemetry at 256K on both channels. First occurrence -> stopped refreshing for approx. 5 minutes; second occurrence -> approx. 10 minutes. After each occurrence, the display would return to refreshing every 5 seconds.

***** Analysis (for SMOdr00273) *****

Modified calculation used to determine when EDU/VCDU display needs to be refreshed.

DR SMOdr00275 **Related NCR #:** ETS0361 **Submitted:** 970402
Status: CLOSE **System:** ETS **Closed:** 970917

TITLE: "Rate buffer file not created"

***** Problem (for SMOdr00275) *****

When dropping EDUs on both channels, channel 1 - 18 EDUs and channel 2 = 28 EDUs, the rate buffer file for channel 2 is not being created -> receive msg 'cannot open channel 2 rate buffer disk file'. Ran test without dropping EDUs and the RBD files were created for both channels. Telemetry data rate -> 256K H/K.

***** Analysis (for SMOdr00275) *****

Problem fixed with resolution of DR 00272.

DR SMOdr00278 **Related NCR #:** ETS0366 **Submitted:** 970402
Status: CLOSE **System:** ETS **Closed:** 970918

TITLE: "Incorrect message when config tlm packet parm"

***** Problem (for SMOdr00278) *****

Receive two messages when configuring the telemetry packet by parameter. The first message is correct and reports the parameter's setting. The second message 'Telemetry mode not found' provides no additional info and appears to be misleading.

***** Analysis (for SMOdr00278) *****

Both messages are correctly output. The first message indicates ingestion of the request by the GUI, and the second message indicates failure to execute the request. The MPS User's Guide was updated to better describe the sequence of messages.

DR SMOdr00281 Related NCR #: ETS0383 Submitted: 970402

Status: CLOSE

System: ETS

Closed: 970917

TITLE: "Reselecting Window Clears Data"

***** Problem (for SMOdr00281) *****

Reselecting the monitor command window when it was already up caused the command data in the display to be cleared out. Suggestion -> desensitizes option or brings window to foreground and save the data in the display.

***** Analysis (for SMOdr00281) *****

Added desensitizing/sensitizing logic to muc_mon_command_funcs.c.

DR SMOdr00282 Related NCR #: ETS0384 Submitted: 970402

Status: CLOSE

System: ETS

Closed: 970917

TITLE: "Intermittent problem with dropping EDUs"

***** Problem (for SMOdr00282) *****

Intermittent problem with dropping EDUs. Ran three test to drop EDUs simultaneously on each channel. Analysis of rate buffer file showed that one channel (I) did not drop EDUs while the remaining I and Q channels dropped the correct number of EDUs.

***** Analysis (for SMOdr00282) *****

Modified header file to create individual parameters for dropping EDUs on each channel.

DR SMOdr00356 Related NCR #: 00012441 Submitted: 970605

Status: CLOSE

System: ETS

Closed: 970917

TITLE: "Incorrect command executed"

***** Problem (for SMOdr00356) *****

Set the jump pseudo-op in the ATC to execute the 4th command but it incorrectly executed the 5th command. The jump reference number (offset) is being calculated incorrectly (off by one)

***** Analysis (for SMOdr00356) *****

Needed to add code to the Stored Command task to perform additions and subtractions of 1 (one) as appropriate. The AM-1 spacecraft counts stored commands from one but C code in the VME computer counts array references from zero.

DR SMOdr00358

Related NCR #: ETS0460

Submitted: 970605

Status: CLOSE

System: ETS

Closed: 970917

TITLE: "Error having HK and PDB file on simultaneously"

***** Problem (for SMOdr00358) *****

Having the data source indicator set to "on" for HK file and PDB at the same time is an error. The user was able to set both indicators to "ON" by setting the HK file -> hk_pd.dat on the MPS main menu following bt opening a configuration file (with the data source set to PDB). MPS set the PDB indicator "ON" but did not unset the HK file indicator.

***** Analysis (for SMOdr00358) *****

Made changes to muf_read_params.c and muf_init_display.c to correct the data source behavior when opening a configuration file.

DR SMOdr00359

Related NCR #: ETS0461

Submitted: 970605

Status: CLOSE

System: ETS

Closed: 970917

TITLE: "User was able to reset TLM while data on"

***** Problem (for SMOdr00359) *****

Entered "U_setreplay" in the user command box while data from the HK file is being transmitted. After clicking ok, the user receive several messages indicating the data source HK file has been reset to "U_setreplay_on". The user should not be allowed to reset the data source while transmission is in progress. Also the user command should not overwrite the HK file name. Entering data in the user command box should not interfere with the data source setting. Old data that was entered in the user command line option is displayed in the HK files field under data source in the S/C mode. Impact: minimal - user must delete old data before entering the file name. Receive the same response message multiple times in the event log when the user selects the option to set data source to HK file in the spacecraft mode.

***** Analysis (for SMOdr00359) *****

Modified GUI to blank out previous selection in user command box. Modified GUI code to eliminate redundant messages.

DR SMOdr00421

Related NCR #: ETS0474

Submitted: 970625

Status: CLOSE

System: ETS

Closed: 970917

TITLE: "MPS went into endless loop"

***** Problem (for SMOdr00421) *****

Sent in an ATC with a pseudo-op jump reference number pointing to itself and caused the system to go into a loop and then finally halted.

***** Analysis (for SMOdr00421) *****

Added logic to the stored command task to detect commands and pseudo-ops already executed once. The logic prints messages to the operator and skips the command or pseudo-op, going on to the next entry.

DR SMOdr00431

Related NCR #:

Submitted: 970711

Status: CLOSE

System: ETS

Closed: 970917

TITLE: "Memory Dump Command Processing"

***** Problem (for SMOdr00431) *****

Currently MPS will not process a memory dump command until it receives a memory dump gather command. In operations a memory dump command can be processed without receiving a dump gather command. Change MPS to remove this restriction.

***** Analysis (for SMOdr00431) *****

Modified xsm task to more realistically handle dump init commands to the SCCs.

DR SMOdr00440

Related NCR #:

Submitted: 970728

Status: CLOSE

System: ETS

Closed: 970917

TITLE: "Incorrect ATC Format"

***** Problem (for SMOdr00440) *****

MPS is not processing ATC formatted messages correctly.

***** Analysis (for SMOdr00440) *****

An incorrect assumption had been made about command size in the ATC. Corrected the command number of words to 12 from 14. With this change, the ATC can now hold 415 commands vs the 350 previously noted as the maximum.

Attachment F - Unresolved Discrepancy Reports (DRs)

MPS Release 1.3.0 test verification generated seven new Internal Discrepancy Reports (IDRs), which have been converted to Discrepancy Reports (DRs). The DRs were entered in the ESDIS Discrepancy Report Tracking Tool (DRTT). All open ETS MPS DRs are listed in the table below by: DR Number, System/Subsystem name, Status, Severity, and Description. Additionally, one DR that failed MPS Release 1.3.0 test verification is also listed (marked with an asterisk). The DRs can be accessed via the Internet at address <http://iree.gsfc.nasa.gov/dtts/> (directly) or from the ESDIS Integration and Test home page at <http://esdis.gsfc.nasa.gov/integ/integ.html>. A full detail of each DR follows this table.

Summary of Open Discrepancy Reports

Release	Critical(1)	Urgent(2)	Routine(3)	Totals
Prior Releases	0	9	12	21
New in 1.3.0	0	3	4	7
Totals	0	12	16	28

Status Definitions

N - New Resolution	A - Assigned Analysis	R - Assigned
D - Delivered	V - Verified	C - Closed
W - Withdrawn	P - Postponed	X - Duplicate

DR Number	IDR Number	Sub-Sys	Status	Sev	Description
SMOdr00061		MPS	A	2	No Rate Buffered Transmission Capability
SMOdr00064		MPS	A	3	S/C Time Not Updated By Command
SMOdr00084		MPS	A	2	Undelivered Requirement
SMOdr00107		MPS	A	3	CLCW Count Does Not Match VCDU Count
SMOdr00120		MPS	A	2	MPS rejected the command having an error
SMOdr00132		MPS	V	2	Scenario Execution and Starting tlm - System Crash
SMOdr00139		MPS	V	2	Incorrect Flag Bit Setting
SMOdr00150		MPS	A	3	Coda Report only display 2 channels

SMODr00151		MPS	A	3	Coda Reports only 8 VCIDs
SMODr00155		MPS	A	3	Can not set time in NASCOM header
SMODr00156		MPS	A	3	Block error control bit not set in NASCOM block
SMODr00159		MPS	A	3	Coda Reports report wrong number of VCDU
SMODr00170		MPS	A	3	Signal Files Not Supported
SMODr00265	ETS0338	MPS	A	2	VCDU Counts Are Misinterpreted
SMODr00267	ETS0340	MPS	A	2	Cannot enter 0 for VCID value
SMODr00269	ETS0342	MPS	A	2	Incorrect log function display
SMODr00283	ETS0385	MPS	A	3	Path directory truncated
*SMODr00284	ETS0387	MPS	V	2	EDOS header incorrect
SMODr00285	ETS0388	MPS	A	3	Starting telemetry is unsetting the GN mode
SMODr00286	ETS0389	MPS	A	3	Data isn't being transmitted on channel 2
SMODr00357	ETS0459	MPS	A	3	Incorrect data indication
SMODr00446		MPS	N	3	MPS Modeling Online
SMODr00447		MPS	N	2	OMDSIM - SCS Report
SMODr00448		MPS	N	2	OMDSIM - CODAs
SMODr00449		MPS	N	3	MPS Modeling Offline
SMODr00450	ETS0496	MPS	N	2	Q channel reconfigured to wrong setting
SMODr00451	ETS0505	MPS	N	3	Playback flag is set incorrectly
SMODr00452	ETS0506	MPS	N	3	OMDSIM improper shutdown

Total records found = 28

DR SMOdr00061 **Related NCR #:** **Submitted: 961119**
Status: ASSIGNED-ANALYSIS **System: ETS** **Assigned-Anal: 970721**

TITLE: "No Rate Buffered Transmission Capability"

***** Problem (for SMOdr00061) *****

The MPS does not provide the capability to transmit rate buffered files via KFTP to an external entity, either manually or automatically.

***** Analysis (for SMOdr00061) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00061) *****

Awaiting resolution.

DR SMOdr00064 **Related NCR #:** **Submitted: 961119**
Status: ASSIGNED-ANALYSIS **System: ETS** **Assigned-Anal: 970721**

TITLE: "S/C Time Not Updated By Command"

***** Problem (for SMOdr00064) *****

Sent command "CDH_SET_ST1_CLK" to MPS. The format was as follows: "eb90 0009001800C4 1000C0000000 ob08250701e8 0000000000fe 0000008EA3d6 555555555555" in hex. The result of this command should have been that S/C time updated in tlm to 0 days, 0 msec, & 0 usec. However, when this command was sent => the S/C time did not update in the tlm nor on the MPS main window. [Note: There are more cmds in pdb which set/adjust S/C time<= these were not attempted<= assumed these are not working also.]

***** Analysis (for SMOdr00064) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00064) *****

Awaiting resolution.

DR SMOdr00084 **Related NCR #:** **Submitted: 961120**
Status: ASSIGNED-ANALYSIS **System: ETS** **Assigned-Anal: 970721**

TITLE: "Undelivered Requirement"

***** Problem (for SMOdr00084) *****

Attempted to test using activity log as data source => MPS compliance matrix indicated that this requirement was not delivered due to lack of information from outside sources.

***** Analysis (for SMOdr00084) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00084) *****

Awaiting resolution.

DR SMOdr00107 Related NCR #: **Submitted: 961120**

Status: ASSIGNED-ANALYSIS System: ETS Assigned-Anal: 970721

TITLE: "CLCW Count Does Not Match VCDU Count"

***** Problem (for SMOdr00107) *****

TLM status window contains field titled "CLCW count" -> since H/K, Diag & H&S tlm all contain CLCW => the CLCW count should match the VCDU count when Diag., H&S, & H/K tlm are being transmitted in S/C Sim mode.

***** Analysis (for SMOdr00107) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00107) *****

Awaiting resolution.

DR SMOdr00120 Related NCR #: **Submitted: 961127**

Status: ASSIGNED-ANALYSIS System: ETS Assigned-Anal: 970721

TITLE: "MPS rejected the command having an error"

***** Problem (for SMOdr00120) *****

Set expected header values as follows for commanding in GN mode => source=0, dest=1, dsid=2, & Mtyp=9. Using CTEST we sent [DBIB] command block to MPS=> 2nd block HDR= "01002A02" (hex) 3rd block HDR= "09000000" (hex). The MPS rejected the command for having an error in its command block header

***** Analysis (for SMOdr00120) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00120) *****

Awaiting resolution.

DR SMOdr00132 Related NCR #: **Submitted: 961127**

Status: VERIFIED System: ETS Verified: 970408

TITLE: "Scenario Execution and Starting tlm - System Crash"

***** Problem (for SMOdr00132) *****

Start tlm after first starting execution of a scenario file, stop tlm. Auto stop of the scenario file - load another, scenario file - start it. Start tlm and the system will crash. Core dump on /HOME/STEST/BUILD6/BIN/CORE.

***** Analysis (for SMOdr00132) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00132) *****

The use of a second template showed the existence of a "bug" introduced in the resolution a earlier problem uncovered in unit testing. The design of code that allows a new template to be loaded without bringing down OMDSIM was reconsidered and upgraded.

DR SMOdr00139 Related NCR #: Submitted: 961127

Status: VERIFIED System: ETS Verified: 970331

TITLE: "Incorrect Flag Bit Setting"

***** Problem (for SMOdr00139) *****

[OMDSIM} - edited Coda file - set flag bit in ground message header - saved file - exited OMDSIM (brought OMDSIM down completely) - brought OMDSIM back up - retrieved saved Coda file-> flag bit was shown as being unset.

***** Analysis (for SMOdr00139) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00139) *****

Corrected code in new_OMD callback to save the OMD type because OMDSIM didn't know what type OMD it was, it couldn't save the OMD to a file correctly.

DR SMOdr00150 Related NCR #: Submitted: 961202

Status: ASSIGNED-ANALYSIS System: ETS Assigned-Anal: 970721

TITLE: "Coda Report only display 2 channels"

***** Problem (for SMOdr00150) *****

Generating input for a Coda Report - Return link physical channel ICD range 0 -> 24 - current display is 0 -> 2.

***** Analysis (for SMOdr00150) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00150) *****

Awaiting resolution.

***** Admin Comments (for SMOdr00150) *****

3/13/97

Awaiting CCR to be submitted for a requirements change.

DR SMOdr00151 Related NCR #: Submitted: 961202
Status: ASSIGNED-ANALYSIS System: ETS Assigned-Anal: 970721

TITLE: "Coda Reports only 8 VCIDs"

***** Problem (for SMOdr00151) *****

Coda Report generator input values for "number of VCIDs" = Range 0 to 8 - ICD 0 to 255.

***** Analysis (for SMOdr00151) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00151) *****

Awaiting resolution.

***** Admin Comments (for SMOdr00151) *****

3/13/97

Awaiting CCR to be submitted for a requirements change.

DR SMOdr00155 Related NCR #: Submitted: 961202
Status: ASSIGNED-ANALYSIS System: ETS Assigned-Anal: 970721

TITLE: "Can not set time in NASCOM header"

***** Problem (for SMOdr00155) *****

According to J.Alger-> GMT time in NASCOM block header can be set by operator [set UTC time] function of MPS. => We set the UTC time to yrs: 96, day: 1, hr: 1, & min: 1. We then began transmitting WGS formatted BLOCK telemetry - we analyzed the tlm logged by RCVBCK SOC test tool => the transmitted time did not match the time we had set through the MPS interface.

***** Analysis (for SMOdr00155) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00155) *****

Awaiting resolution.

DR SMOdr00156 Related NCR #: Submitted: 961202
Status: ASSIGNED-ANALYSIS System: ETS Assigned-Anal: 970721

TITLE: "Block error control bit not set in NASCOM block"

***** Problem (for SMOdr00156) *****

The NASCOM blocks transmitted from the MPS (WGS-mode) do not appear to contain the block error control bits at the end of the block.

***** Analysis (for SMOdr00156) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00156) *****

Awaiting resolution.

DR SMOdr00159 Related NCR #: Submitted: 961205

Status: ASSIGNED-ANALYSIS System: ETS Assigned-Anal: 970721

TITLE: "Coda Reports report wrong number of VCDU"

***** Problem (for SMOdr00159) *****

Coda Report generation CCSDS VCDU processing number of VCIDs ICD value 0 - 255 range for this system 0 - 8.

***** Analysis (for SMOdr00159) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00159) *****

Awaiting resolution.

***** Admin Comments (for SMOdr00159) *****

3/13/97

Awaiting CCR to be submitted for a requirements change.

DR SMOdr00170 Related NCR #: Submitted: 961219

Status: ASSIGNED-ANALYSIS System: ETS Assigned-Anal: 970721

TITLE: "Signal Files Not Supported"

***** Problem (for SMOdr00170) *****

MPS Release 1.0 does not transmit signal files along with RB and SCS file transfers.

***** Analysis (for SMOdr00170) *****

Analysis submitted 2/14/97; as directed by H. Zavaleta.

***** Resolution (for SMOdr00170) *****

Awaiting resolution.

DR SMOdr00265 **Related NCR #:** ETS0338 **Submitted:** 970402
Status: ASSIGNED-ANALYSIS **System:** ETS **Assigned-Anal:** 970424

TITLE: "VCDU Counts Are Misinterpreted"

***** Problem (for SMOdr00265) *****

Several parameters in the CODA report display (for example - count of frame sync pattern errors, count of CADUs received, count of flywheel CADUs, count of out of sequence messages, count of VCDU sequence counter discontinuities) are incorrectly defined as signed integers 4 bytes. The correct format and size as defined in the ICD is unsigned integers 4 bytes. Attempts to enter the maximum value for some parameters are being incorrectly interpreted on the display.

***** Analysis (for SMOdr00265) *****

Awaiting analysis.

DR SMOdr00267 **Related NCR #:** ETS0340 **Submitted:** 970402
Status: ASSIGNED-ANALYSIS **System:** ETS **Assigned-Anal:** 970424

TITLE: "Cannot enter 0 for VCID value"

***** Problem (for SMOdr00267) *****

Tried to enter a zero in the VCID field on the return link physical channel panel of the CODA report but received a message indicating the value was invalid. The valid range for the VCID is 0-8.

***** Analysis (for SMOdr00267) *****

Awaiting analysis.

DR SMOdr00269 **Related NCR #:** ETS0342 **Submitted:** 970402
Status: ASSIGNED-ANALYSIS **System:** ETS **Assigned-Anal:** 970424

TITLE: "Incorrect log function display"

***** Problem (for SMOdr00269) *****

The telemetry logging function is displaying messages with channel 3 (both) instead of reporting channel 1 and channel 2.

***** Analysis (for SMOdr00269) *****

Awaiting analysis.

DR SMOdr00283 **Related NCR #:** ETS0385 **Submitted:** 970402

Status: ASSIGNED-ANALYSIS System: ETS Assigned-Anal: 970424

TITLE: "Path directory truncated"

***** Problem (for SMOdr00283) *****

The scenario file name window is not large enough to show complete path directory and file name and user cannot scroll in the window to see the file name.

***** Analysis (for SMOdr00283) *****

Awaiting analysis.

DR SMOdr00284 Related NCR #: ETS0387 Submitted: 970402

Status: VERIFIED System: ETS Verified: 970917

TITLE: "EDOS header incorrect"

***** Problem (for SMOdr00284) *****

The source sequence counter discontinuity field (item 10, table 5.1.3.1, ICD) is not set in the EDOS service header after EDUs are dropped on both channels.

***** Analysis (for SMOdr00284) *****

Field set in EDOS Service Header of first EDU following requested number of dropped EDUs.

DR SMOdr00285 Related NCR #: ETS0388 Submitted: 970402

Status: ASSIGNED-ANALYSIS System: ETS Assigned-Anal: 970424

TITLE: "Starting telemetry is unsetting the GN mode"

***** Problem (for SMOdr00285) *****

Configured command for GN and started telemetry (both channels). Sent command and received message -> 'no sync in command.' Stop tlm on both channels and resent command -> received message 'no sync in command.' Reconfigured command for GN and resent command -> received message 'command AST_TURN_OFF_C_SD received.' Start telemetry on both channels and sent command -> received message 'no sync in command.' It appears that starting telemetry is unsetting the command configuration for the GN mode.

***** Analysis (for SMOdr00285) *****

Awaiting analysis.

DR SMOdr00286 Related NCR #: ETS0389 Submitted: 970402

Status: ASSIGNED-ANALYSIS System: ETS Assigned-Anal: 970424

TITLE: "Data isn't being transmitted on channel 2"

***** Problem (for SMOdr00286) *****

Intermittent problem (occurred twice) when starting telemetry on both channels but data isn't being transmitted on channel 2 -> received message to indicate telemetry had started on both channels. This problem occurred on 3/25 and 4/1. Workaround - stopped and restarted telemetry on channel 2. Attempted to reproduce problem by starting and stopping telemetry numerous times but was unsuccessful.

***** Analysis (for SMOdr00286) *****

Awaiting analysis.

DR SMOdr00357 **Related NCR #:** ETS0459 **Submitted:** 970605
Status: ASSIGNED-ANALYSIS **System:** ETS **Assigned-Anal:** 970613

TITLE: "Incorrect data indication"

***** Problem (for SMOdr00357) *****

After completing the first playback transmission successfully, the user tried to initiate a second transmission but the playback data was not sent. Although, the data source indicator was set to HK file, the user had to reset the indicator to start another transmission. The user should not have to toggle the indicator for subsequent transmission

***** Analysis (for SMOdr00357) *****

Awaiting analysis.

DR SMOdr00446 **Related NCR #:** **Submitted:** 970917
Status: NEW **System:** ETS

TITLE: "MPS Modeling Online"

***** Problem (for SMOdr00446) *****

For modeling with a COS algorithm, the offset and amplitude were both set to 3 using raw data numbers. This should have caused the range of values to go between 0 and 6. Instead, the value ranges are between 0 and 5. This condition was repeated with the offset and amplitude both set to 4. The correct range is 0 - 7 not 0 - 8.

DR SMOdr00447 **Related NCR #:** **Submitted:** 970917
Status: NEW **System:** ETS

TITLE: "OMDSIM - SCS Report"

***** Problem (for SMOdr00447) *****

The format and data in the SCS report does not match the EDOS/EGS ICD.

DR SMOdr00448 **Related NCR #:** **Submitted: 970917**
Status: NEW **System: ETS**

TITLE: "OMDSIM - CODAs"

***** Problem (for SMOdr00448) *****

The CODA format has 24 extra bytes of zeros between the EDOS ground message header and the content of the CODA report.

DR SMOdr00449 **Related NCR #:** **Submitted: 970917**
Status: NEW **System: ETS**

TITLE: "MPS Modeling Offline"

***** Problem (for SMOdr00449) *****

When an EXP algorithm in EU units is used, the system is very slow in converting the EU to raw data numbers. After about 10 minutes only 10 data points had been converted. This occurs when a positive number is used for the exponent coefficient. When a negative number is used for the exponent coefficient, the conversion is only slightly faster.

DR SMOdr00450 **Related NCR #: ETS0496** **Submitted: 970918**
Status: NEW **System: ETS**

TITLE: "Q channel reconfigured to wrong setting"

***** Problem (for SMOdr00450) *****

Upon completion of the HK playback data file transfer, the MPS reconfigured the Q channel data rate to 16K instead of defaulting to configured setting of 1K

DR SMOdr00451 **Related NCR #: ETS0505** **Submitted: 970918**
Status: NEW **System: ETS**

TITLE: "Playback flag is set incorrectly"

***** Problem (for SMOdr00451) *****

The playback flag in the ESH is being set in the CLCW when real-time EDUs (16K housekeeping) are transmitted. This flag (510-ICD-EDOS/EGS, Table 5.1.3-1 EDOS Service Header Item 6) should be set to non-playback data

DR SMOdr00452

Related NCR #: ETS0505

Submitted: 970918

Status: NEW

System: ETS

TITLE: "OMDSIM improper shutdown"

***** Problem (for SMOdr00452) *****

OMDSIM does not shutdown properly when closing the comm link and appears to be in a loop.

Attachment G - List of System Requirements

In MPS Release 1.3.0, the implementation of each level 4 requirement (i.e., full, partial, or non-implementation) remains the same as for MPS Release 1.2.0, except for the following changes as noted in italics in the table below.

Level 4 Req. Spec	Requirements Description	Compliance <u>Full/Partial/None</u>	Comment
V2-31140-01	The MPS shall accept directives that control the creation, modification, and transmission of OMD. The complete requirements are contained within the Operations Management Data SWCI Requirements specification.	F	<i>A manual procedure has been documented that will enable a user to transmit a SCS summary report via FTP.</i>
V2-32430-08	The MPS shall provide the capability to transmit rate buffered files via KFTP either at the end of a simulated contact or on request.	P	<i>The Kerberos requirement has been dropped for the ESDIS Project. A manual MPS procedure has been documented that will enable a user to transmit a simulated rate buffered data file via FTP.</i>
New	The MPS shall provide the capability to set the VCID in the EDOS Service Header of packets in simulated rate buffered files to indicate housekeeping playback data from either the low-rate or the high-rate science data channel.	F	<i>The ETS DRB approved implementing the CCR for this new requirement on 7/31/97.</i>

Attachment H - System Limitations

H.1 MPS Release 1.3.0 Limitations

Some previous system limitations cited in earlier MPS releases have been removed due to the resolutions of DRs included in MPS Release 1.3.0. The following system limitations have been corrected (DR numbers in parentheses):

- CLCW EDU transmission in EDOS sim mode is now continuous during real time data transmissions (SMOdr00098)
- Multicasting is now supported (SMOdr00168)
- Multiple UDP ports are now handled (SMOdr00169)

The current set of system limitations associated with the MPS is listed in H.1.

DR. No.	Rel	Sev	Problem Description	Possible Workaround
SMOdr00061	1.0	2	[EDOS Sim Mode] No current support of Kerberos file transfers (kFTP), which are required for rate buffered (RB) data files and spacecraft contact session (SCS) reports.	The RB and SCS files are now to be transmitted via FTP. Procedures have been documented to enable users to FTP created files, however, the MPS session must be closed to FTP a rate buffered file.
n/a	1.0	2	MPS uses valid EOS AM-1 APID numbers when telemetry format is selected. It does not generate and transmit up to 512 unique APIDs. (Internal CCB Waiver accepted on V2-32410-03.)	For any simulated data type, user can override APID number in outgoing packets by using Tlm Packet option in MPS Configure menu and setting byte offset and entering any APID number.
n/a	1.0	2	[S/C Sim Mode] MPS uses valid EOS AM-1 VCID numbers when telemetry format is selected. It does not generate and transmit up to 31 unique VCIDs. (Internal CCB Waiver accepted on V2-32440-07.)	For any simulated data type, user can override VCID number in outgoing CADUs by using Packet Format option in MPS Configure menu and selecting VCID Corrupt Header Field option to generate an invalid VCID.
SMOdr00150 SMOdr00151 SMOdr00159	1.0 1.0 1.0	3 3 3	[EDOS Sim Mode] MPS does not provide complete CODA generation capabilities as specified in the EDOS-EGS ICD (e.g., handling more than two return link channels, or maximum number of VCIDs), however, it should provide sufficient ranges for EOS AM-1 test support. (Internal CCB Waiver submitted on V2-34000-01.)	None. Later MPS releases could add enhancements to be applicable for other EOS spacecraft.
SMOdr00170	1.0	3	[EDOS Sim Mode] Signal files are not transmitted along with RB and SCS file transfers	The ability to create and transmit signal files is also provided in the manual procedures to FTP RB and SCS files. A future MPS release may try to automate some of the procedure.
SMOdr00447	1.3.0	2	The format of the SCS summary report does not match the EDOS-EGS ICD.	None. An engineering patch release is anticipated to correct the problem.
SMOdr00448	1.3.0	2	The CODA format has 24 extra bytes of zeros between the EDOS ground header and the content of the CODA report.	None. An engineering patch release is anticipated to correct the problem.

H.2 MPS DR Workarounds

The following table provides suggested workarounds for a subset of open MPS Discrepancy Reports (DRs). DRs not found in this table have no suggested workaround.

DR No.	Rel	Sev	Description Of Discrepancy	Suggested Workaround
SMOdr00084	1.0	2	Attempted to test using activity log as data source => MPS compliance matrix indicated that this requirement was not delivered due to lack of information from outside sources. [V2-32420-03]	Assign ASCII messages to activity log mnemonics via the telemetry parameter override option.
SMOdr00267 { XE "0340" }	1.1.0	2	Tried to enter a zero in the VCID field on the return link physical channel panel of the CODA report but received a message indicating the value was invalid. The valid range for the VCID is 0-8.	Since the GUI comes up with a default VCID of 0, leave it unchanged if 0 is desired. Once the VCID is changed, the GUI tests for limits and incorrectly declares 0 to be out of range.
SMOdr00269	1.1.0	2	The telemetry logging function is displaying messages with channel 3 (both) instead of reporting channel 1 and channel 2.	Until this is fixed, remember that “Ch 3” means channel 1 and 2.
SMOdr00450	1.3.0	2	Upon completion of the HK playback data file transfer, the MPS reconfigured the Q channel to 16K instead of defaulting to the configured setting of 1K.	The user can stop the telemetry stream and then restart it at the desired data rate.

DR No.	Rel	Sev	Description Of Discrepancy	Suggested Workaround
SMOdr00452	1.3.0	3	OMDSIM does not shut down properly when closing the comm link and appears to be in a loop.	When CODA Report transmission stops, the OMDSIM software attempts to automatically FTP the SCS Summary Report. At this point, the operator should observe in the terminal window (from which the OMDSIM software was invoked) a message indicating the name of the SCS Summary Report, the directory where the SCS Summary Report is located, and a password prompt. The operator should simply press <ENTER> at the password prompt. This will allow the OMDSIM to continue as usual. The operator will then need to manually FTP the SCS Summary Report and a Signal File as outlined in a documented procedure.

Attachment I - Release History Summary Matrix

Attached is the release history summary matrix, which reflects the MPS Release 1.3.0 delivery.

Release History Summary Matrix								
SYSTEM:	MPS							
RELEASE NUMBER		1.0	1.1.0	1.2.0	1.2.1	1.3.0		
DELIVERY DATE		12/02/96	4/4/97	6/6/97	7/30/97	9/19/97		
CONFIGURATION ITEM	CI NO.							
MPS Workstation	1.1	1.0	n/a	n/a	n/a	n/a		
VME Platform	1.2	1.0	n/a	n/a	n/a	n/a		
MPS User Interface	1.3	1.0	1.1.0	1.2.0	n/a	1.3.0		
Spacecraft SIM	1.4	1.0	1.1.0	1.2.0	1.2.1	1.3.0		
OMDSIM	1.5	1.0	1.1.0	1.2.0	n/a	1.3.0		
Utilities	1.6	1.0	1.1.0	1.2.0	n/a	1.3.0		

Attachment J - Listing of Delivery Contents

MPS Release 1.3.0 MVME177 Source Software (Floppy Disk 1 of 4), 9/19/97

Volume in drive C has no label

Volume Serial Number is 2134-17E2

Directory of C:\DISK1 CI 1.4

.	<DIR>	09-18-97	10:49a
..	<DIR>	09-18-97	10:49a
DS_DIR	<DIR>	09-18-97	10:57a
GT_DIR	<DIR>	09-18-97	10:57a
INC	<DIR>	09-18-97	10:57a
MDB_GEN	<DIR>	09-18-97	10:58a
SM_DIR	<DIR>	09-18-97	10:58a
TO_DIR	<DIR>	09-18-97	10:58a
TY_DIR	<DIR>	09-18-97	10:58a
XT_DIR	<DIR>	09-18-97	10:59a
10 file(s)	0 bytes		

Directory of C:\DS_DIR CI 1.4

.	<DIR>	09-18-97	10:57a
..	<DIR>	09-18-97	10:57a
DS_WRIT.C	2,156	03-14-97	9:28a
DS_MAIN.C	10,397	03-14-97	10:23a
DS_TOPKT.H	6,022	07-08-96	3:42p
DS_SMTBL.H	5,496	02-16-94	3:51p
MAIN_DS.H	1,727	02-17-94	9:25a
DS_STRPK.H	7,250	09-01-94	1:40p
DS_STR.H	13,711	10-18-94	10:46a
DS_INCS.H	793	10-13-95	9:01a
DS_SEG.H	6,825	01-15-96	10:29a
DS_SCI.H	337	02-08-95	9:10a
DS_DEF.H	4,724	01-15-96	4:25p
DS_INIT.H	10,623	01-02-96	2:34p
DS.H	1,050	12-30-96	4:45p
COMP_DS.BAT	34	11-26-96	5:29p
CF.BAT	34	10-08-96	4:40p
LINK_DS.CMD	697	11-26-96	5:30p
18 file(s)	71,876 bytes		

Directory of C:\GT_DIR CI 1.4

.	<DIR>	09-18-97	10:57a
..	<DIR>	09-18-97	10:57a
GT_INS.C	2,628	11-17-94	6:36p
GT_FMT.C	2,331	01-18-96	10:53a
GT_TRAV.C	1,414	09-13-93	1:36p
GT_EVENT.C	2,430	03-20-97	6:18p
GT_FIND.C	1,458	01-05-94	11:13a
GT_GAPID.C	1,717	01-05-94	11:39a

GT_GNAME.C	1,447	01-05-94	11:46a
GT_SAPID.C	1,933	07-12-94	5:21p
GT_SNAME.C	1,797	07-12-94	5:21p
GT_UPD.C	1,569	11-02-94	6:34p
GT_SNVAL.C	3,020	11-15-95	2:19p
GT_SAVAL.C	2,715	11-15-95	6:09p
GT_ACT.C	1,440	12-30-94	12:30p
GT_Q_PKT.C	2,783	11-17-94	7:12p
GT_CREAT.C	4,836	07-18-96	2:08p
GT_ACST.C	3,821	07-18-96	2:09p
GT_ACSVL.C	1,824	11-17-94	5:59p
GT_ACSEN.C	1,668	11-17-94	6:03p
GT_ACSET.C	2,595	02-06-95	4:37p
PRT_ACS.C	2,066	12-07-94	3:26p
PRT_PKT.C	1,930	01-30-94	12:33p
GT_DPPKT.C	7,046	06-26-97	1:19p
GT_INTVL.C	1,738	08-25-94	12:54p
GT_SEND.C	2,695	03-31-95	8:41a
GT_INIT.C	1,669	05-13-97	10:08a
GT_MAIN.C	3,540	05-13-97	10:07a
GT_PIN.C	3,821	04-17-97	10:40a
GT_RESET.C	1,296	04-21-97	12:06p
GT_NODMP.C	2,250	04-17-97	1:29p
GT_INIT.H	1,829	11-15-93	1:19p
GT_STR.H	1,352	11-12-93	3:12p
GT_INCS.H	635	05-13-97	10:12a
GT_INVM.H	765	12-10-93	5:05p
GT_ACS.H	1,095	11-17-94	6:06p
GT_BSTR.H	1,712	02-16-96	2:32p
GT.H	2,023	03-19-97	9:01a
GT_DEF.H	1,388	02-20-97	10:17a
CF.BAT	34	04-22-96	10:25a
COMP_GT.BAT	189	04-17-97	9:43a
LINK_SC2.CMD	1,480	05-17-96	9:29a
LINK2_SC.CMD	1,480	05-17-96	9:30a
LINK_GT.CMD	854	04-17-97	9:44a
44 file(s)	86,313 bytes		

Directory of C:\INC

CI 1.4

.	<DIR>	09-18-97	10:57a
..	<DIR>	09-18-97	10:57a
OPS_MIDS.H	1,208	09-25-95	3:06p
SCDEF.H	2,499	02-11-96	12:59p
CMD_MIDS.H	4,720	10-13-94	12:50p
IOCONF.H	2,096	02-08-93	12:55p
GLOBALS.H	1,768	04-26-94	2:00p
DP_PKT.H	1,317	08-09-94	4:52p
TLM_MIDS.H	4,071	10-14-94	1:37p
MDL_MIDS.H	3,549	02-06-95	3:32p
COMPILER.H	1,214	10-27-93	3:14p
OPDEF.H	4,447	03-24-95	3:32p
WRITE_TI.H	766	03-19-94	2:34p
HSIO.H	2,777	10-27-93	4:10p

PUB_TI.H	2,284	08-06-96	6:42a
FUNC_MC.H	775	06-26-96	8:37a
SCSTR.H	3,881	04-02-96	8:51a
BASEPSS.H	623	09-10-93	2:16p
PTRTB_MT.H	746	02-10-97	8:12a
PDBOLD.H	14,933	10-13-94	11:41a
PUB_OP.H	1,401	04-06-95	12:33p
PSSDEF.H	2,509	02-10-97	8:06a
PUB_MT.H	2,536	05-14-97	11:18a
INIT_TO.H	2,825	12-07-93	2:46p
GADDR_TO.H	737	04-14-94	2:26p
PUB_TO.H	1,791	10-03-96	2:54p
MPS.H	13,754	07-24-97	3:54p
MAIN_TO.H	1,715	12-07-93	11:44a
OPSTR.H	8,155	01-24-94	12:39p
QGLS_OP.H	3,677	01-24-94	12:34p
QOPT_OP.H	2,135	01-24-94	12:33p
TBREG_SM.H	1,179	08-02-94	5:33p
PUB_MO.H	1,562	10-22-96	10:58a
PUB_AE.H	709	09-02-94	5:42p
PUB_AC.H	999	03-02-95	9:30a
OP_TASK.H	1,072	02-21-93	7:01p
PUB_DS.H	2,526	12-30-96	3:42p
GLO_DEF.H	1,401	04-06-95	1:56p
PUB_AM.H	973	03-27-95	3:59p
PUB_PB.H	790	04-21-94	2:04p
PUB_AD.H	802	03-30-95	1:56p
SP_TIDS.H	11,810	10-15-95	12:49p
AP_TIDS.H	8,172	11-08-95	4:03p
PUB_ME.H	1,027	01-31-95	12:56p
PUB_SC.H	1,087	05-08-97	10:21a
MODELSTR.H	7,147	08-12-97	3:27p
DS_TOPKT.H	5,985	04-25-94	3:07p
SIDS.H	19,262	10-12-95	2:40p
MPSPKT.H	1,931	06-13-96	1:11p
TO_DEF.H	3,951	08-29-96	2:18p
HSIO2.H	2,180	02-20-96	3:04p
SM_PKT.H	22,637	10-11-95	5:30p
EDU.H	2,214	06-29-96	11:56a
EDGM.H	4,931	07-24-96	6:15a
ETS.H	2,685	12-05-96	2:58p
FQ2.H	3,942	06-18-96	2:33p
PUB_CI.H	2,307	05-12-97	10:47a
PDB.H	14,505	04-14-97	4:04p
PUB_GT.H	2,190	04-17-97	9:36a
TO_PKT.H	4,851	02-20-97	10:47a
PUB_DL.H	1,631	06-17-97	11:16a
PUB_SM.H	2,320	06-04-97	4:48p
PUB_IN.H	789	06-03-97	9:38a
PUB_MC.H	1,771	06-06-97	12:31p
PUB_XT.H	7,398	07-22-97	12:13p
65 file(s) 243,645 bytes			

Directory of C:\MDB_GEN

CI 1.4

.	<DIR>	09-18-97	10:58a
..	<DIR>	09-18-97	10:58a
MD_WRITE.C	7,281	09-02-97	10:13a
MD_CVRT.C	12,474	09-08-97	3:46p
MD_CWDSW.C	8,070	08-25-97	11:56a
MD_CVTRW.C	7,151	08-28-97	10:59a
MD_TBL2.C	3,504	08-19-97	1:37p
MD_TABLE.C	9,156	08-19-97	4:23p
MD_RAMP.C	2,102	08-25-97	11:57a
MD_EXP.C	2,070	09-02-97	5:54p
MD_COS.C	1,994	09-02-97	5:52p
MD_SIN.C	2,211	08-12-97	3:35p
MD_WORK.C	5,951	09-02-97	5:55p
MD_ALG.C	9,884	08-20-97	5:14p
MD_TLM4.C	13,764	09-08-97	3:39p
MD_TLM1.C	3,730	08-11-97	4:42p
MD_HASH.C	1,802	07-23-97	11:03a
MD_FIND.C	3,053	07-30-97	4:42p
MD_CVTEU.C	3,045	07-30-97	4:49p
MD_RCAL.C	10,978	08-25-97	1:38p
MD_INIT.C	2,519	08-27-97	6:11p
MD_MAIN.C	7,046	09-02-97	3:42p
MD_CVTMM.C	5,873	08-20-97	11:16a
MD_TBL1.C	4,031	08-12-97	11:04a
MD_TLPAR.C	3,732	08-28-97	10:32a
MD_SIGN.C	2,039	07-07-97	5:19p
MD_RPOLY.C	5,196	09-02-97	10:31a
MD_RBRKT.C	2,889	07-07-97	5:16p
MD_PR2EF.C	2,793	08-25-97	1:21p
MD_PEU2R.C	5,321	08-28-97	11:04a
MD_MINUS.C	2,039	07-07-97	5:14p
MD_FROOT.C	3,467	07-07-97	5:13p
MD_BRGVI.C	5,716	07-07-97	5:11p
PD_XTRAC.C	2,121	11-27-96	3:07p
MD_TLM2.C	8,451	08-21-97	1:21p
MD_TLM.C	7,915	09-08-97	3:34p
MD_TLM3.C	8,360	08-21-97	1:22p
MD_PROTO.H	3,812	08-12-97	2:01p
MD.H	5,128	08-28-97	10:14a
MD_INCS.H	650	07-30-97	12:45p
LINK_MDB.CMD	1,802	08-28-97	10:23a
COMP_MDB.BAT	605	07-30-97	10:47a
CF.BAT	36	07-30-97	10:49a

43 file(s) 199,761 bytes

Directory of C:\SM_DIR

CI 1.4

.	<DIR>	09-18-97	10:58a
..	<DIR>	09-18-97	10:58a
SM_COPY.C	1,381	04-16-97	11:11a
SM_MAIN.C	5,115	06-03-97	4:21p

SM_INIT.C	8,630	07-07-97	11:02a
SM_SCCLD.C	3,314	07-07-97	11:30a
SM_CXSUM.C	1,351	09-10-96	7:14a
SM_MLIST.C	9,914	09-10-96	7:08a
SM_DIADP.C	2,809	06-05-97	8:45a
SM_MCOPY.C	4,732	09-10-96	7:13a
SM_DPABO.C	3,804	06-06-97	12:45p
SM_SCTBL.C	25,331	02-27-97	2:59p
SM_SYTBL.C	12,344	02-27-97	2:59p
SM_SCCDP.C	3,872	06-06-97	2:15p
SM_SETME.C	3,524	07-07-97	11:25a
SM_GNBLK.C	2,122	06-05-97	8:47a
SM_LOG.C	4,010	02-28-97	8:20a
SM_MEMLD.C	3,272	07-07-97	11:06a
SM_MLOAD.C	3,575	07-07-97	11:31a
SM_PUTQ.C	1,164	06-17-97	11:33a
SM_LDRST.C	3,466	06-06-97	12:47p
SM_GNABS.C	1,739	07-07-97	11:09a
SM_GNTBL.C	1,748	07-07-97	11:10a
SM_CCITT.C	2,135	07-07-97	11:11a
SM_BDDMP.C	4,375	07-07-97	11:13a
SM_DPRST.C	2,153	06-04-97	5:29p
SM_GNSTR.C	2,290	06-05-97	8:49a
SM_TDREQ.C	4,378	07-07-97	10:12a
SM_CRC.C	2,299	07-07-97	11:14a
SM_CERLD.C	1,901	05-28-97	10:51a
SM_MDREQ.C	3,775	07-07-97	10:10a
SM_GATHR.C	3,628	07-07-97	11:53a
SM_LDTBL.C	4,051	07-07-97	11:33a
SM_STRCT.H	30,686	05-21-97	12:29p
SM_TBL.H	6,857	07-07-97	10:55a
SM_SCTBL.H	1,019	08-09-94	4:58p
SM_SYTBL.H	989	08-09-94	5:01p
SM_INCS.H	1,498	03-06-97	1:49p
SM_PROTO.H	3,635	05-27-97	1:21p
SM_INIT.H	5,314	05-23-97	1:45p
SM.H	5,343	07-07-97	10:01a
COMP_SM.BAT	1,747	05-23-97	1:44p
CF.BAT	34	10-04-96	12:34p
LINK_SM.CMD	1,680	05-23-97	1:43p
44 file(s)	197,004 bytes		

Directory of C:\TO_DIR

CI 1.4

.	<DIR>	09-18-97	10:58a
..	<DIR>	09-18-97	10:58a
TO_PBSTR.C	4,561	02-20-96	3:10p
TO_CWUPD.C	1,085	12-07-93	2:37p
TO_INIT.C	1,096	12-07-93	2:56p
TO_INLIS.C	1,533	10-06-94	3:06p
TO_SETEC.C	2,248	07-28-95	5:19p
TO_DPTLM.C	1,567	03-11-96	3:51p
TO_TIMEC.C	1,022	12-07-93	3:10p
TO_RTSTP.C	1,531	02-04-97	1:44p

TO_SETPB.C	1,664	10-17-95	9:24a
TO_SETFL.C	1,030	12-07-93	3:07p
TO_PBSTP.C	1,349	05-03-94	4:05p
TO_OPSTP.C	1,552	07-20-96	11:24a
TO_STOP.C	1,096	08-08-94	2:27p
TO_SETXM.C	2,179	09-28-94	4:15p
TO_SETRT.C	5,202	07-11-96	2:29p
TO_START.C	3,386	07-11-95	11:30a
TO_OPSTR.C	1,717	07-11-96	2:25p
TCM_ENCO.C	3,480	01-28-94	2:41p
TO_BLHDR.C	11,442	10-13-95	12:54p
TO_RCVMS.C	1,704	09-16-94	8:28a
TO_STDMPC	4,993	10-20-94	7:54a
TO_ABDMP.C	3,240	08-02-94	4:09p
TO_PACRE.C	4,442	03-06-97	2:47p
TO_CANCE.C	3,707	03-06-97	2:46p
TO_PROCD.C	4,272	12-12-94	1:08p
TO_EXTPK.C	3,368	12-12-94	1:07p
TO_DFRAM.C	4,854	12-12-94	1:08p
TO_DPKT.C	5,260	12-12-94	1:10p
TO_EVTAB.C	2,135	12-12-94	1:10p
TO_CDMSG.C	3,649	03-06-97	2:46p
TO_RINIT.C	3,975	10-13-95	12:07p
TO_INIT.C	3,372	01-15-97	2:10a
TO_HSIO_.C	2,766	09-26-96	6:41p
TO_RCVHK.C	1,068	02-27-96	3:48p
TO_GADDR.C	1,541	03-05-96	10:17a
TQ_HSIO_.C	2,702	03-21-96	2:30p
TO_HBRD.C	2,264	05-03-96	9:32a
TO_RBF.C	1,299	10-07-96	12:41p
TO_UESH.C	2,242	10-04-96	9:38a
TO_INES.C	2,779	08-30-96	10:31a
TO_SET_T.C	4,112	04-25-97	10:03a
TO_SET_H.C	2,117	07-09-97	9:30a
TO_RTSTR.C	11,396	02-22-97	11:45a
TO_VCDU.C	4,563	04-24-97	3:04p
TO_EDU.C	9,532	07-23-97	8:39a
TO_MAIN.C	15,819	07-18-97	4:38p
NASCOM.H	1,680	06-17-93	9:44a
TO_INCS.H	752	09-25-96	4:41p
STRUCT.H	1,174	01-27-94	4:52p
RSTABLES.H	6,383	01-05-94	5:29p
TO_INIT.H	3,892	10-19-94	9:59a
TO_STR.H	10,589	02-20-96	2:59p
DS_SCI.H	337	02-08-95	9:10a
TO_PKT.H	5,018	02-20-97	2:54p
TO.H	8,748	02-20-97	2:52p
COMP_TO.BAT	871	10-07-96	4:20p
T.BAT	16	03-18-96	2:45p
B.BAT	36	03-18-96	1:15p
CF.BAT	34	04-22-96	10:36a
LINK_TO.CMD	1,592	09-25-96	1:13p
LINK_BIL.CMD	1,393	06-11-96	11:00a

63 file(s) 204,426 bytes

Directory of C:\TY_DIR

CI 1.4

.	<DIR>	09-18-97	10:58a
..	<DIR>	09-18-97	10:58a
TY_MODEL.C	2,933	09-29-96	10:58a
TY_TLM.C	3,078	07-20-96	11:34a
TY_CASE.C	7,270	05-28-97	3:57p
TY_2CASE.C	8,848	07-29-97	3:58p
TY_HSIO.C	2,165	12-18-96	11:50a
TY_MON.C	3,995	04-09-97	11:13a
TY_CFIG.C	5,791	06-26-97	2:38p
TY_RBF.C	4,889	03-14-97	8:49a
TY_LOG.C	4,118	01-27-97	2:39p
TY_MAIN.C	18,249	07-22-97	3:57p
TY_UCMD.C	4,204	07-28-97	8:22a
TY_SMSG.C	1,666	07-09-97	3:28p
TY_NTWK.C	2,579	07-28-97	8:20a
TY_DEF.H	2,387	05-06-96	2:29p
COMP_TY.BAT	225	07-22-97	2:24p
CF.BAT	36	09-29-96	10:59a
LINK_TY.CMD	1,211	07-23-97	2:53p
19 file(s)	73,644 bytes		

Directory of C:\XT_DIR

CI 1.4

.	<DIR>	09-18-97	10:59a
..	<DIR>	09-18-97	10:59a
TQ_RTSTP.C	1,616	02-04-97	1:51p
TQ_HSIO_.C	2,922	09-26-96	6:48p
TQ_RTSTR.C	11,327	06-17-97	12:15p
TQ_RBF.C	1,318	10-07-96	12:45p
TQ_INES.C	2,761	08-30-96	10:29a
TQ_UESH.C	2,547	10-04-96	9:39a
TQ_CLCW.C	2,714	09-23-96	9:10a
TQ_SNDCW.C	2,682	07-23-97	1:01p
XRSE.C	7,362	09-25-96	10:29a
TQ_VCDU.C	5,534	07-17-97	1:17p
TQ_EDU.C	11,328	07-29-97	3:54p
XT_INIT.C	3,314	07-28-97	8:25a
TQ_RDSOC.C	2,130	06-27-97	12:21p
XT_MAIN.C	16,547	07-21-97	12:01p
TQ_LDBF.C	2,944	07-17-97	1:21p
STRUCT.H	1,174	01-27-94	4:52p
RSTABLES.H	6,383	01-05-94	5:29p
XT.H	2,130	02-20-97	3:44p
DS_STR.H	13,711	10-18-94	10:46a
DS_DEF.H	4,724	01-15-96	4:25p
PB.H	1,609	03-21-96	10:14a
TO_STR.H	10,589	02-20-96	2:59p
COMP_XT.BAT	302	06-26-97	9:04a
CF.BAT	34	04-22-96	10:42a
LINK_XT.CMD	1,070	06-26-97	9:04a
27 file(s)	118,772 bytes		

Total files listed:

333 file(s) 1,195,441 bytes
451,166,208 bytes free

MPS Release 1.3.0 MVME177 Source Software (Floppy Disk 2 of 4)

Volume in drive C has no label

Volume Serial Number is 2134-17E2

Directory of C:\ DISK2

CI 1.4

.	<DIR>	09-18-97	10:49a
..	<DIR>	09-18-97	10:49a
AD_DIR	<DIR>	09-18-97	11:02a
CI_DIR	<DIR>	09-18-97	11:02a
DI_DIR	<DIR>	09-18-97	11:02a
IN_DIR	<DIR>	09-18-97	11:02a
MC_DIR	<DIR>	09-18-97	11:02a
MO_DIR	<DIR>	09-18-97	11:02a
MT_DIR	<DIR>	09-18-97	11:02a
NETWORK	<DIR>	09-18-97	11:03a
OP_DIR	<DIR>	09-18-97	11:03a
SC_DIR	<DIR>	09-18-97	11:03a
TI_DIR	<DIR>	09-18-97	11:03a
UT_DIR	<DIR>	09-18-97	11:03a
14 file(s)	0 bytes		

Directory of C:\AD_DIR

CI 1.4

.	<DIR>	09-18-97	11:02a
..	<DIR>	09-18-97	11:02a
AD_SEND.C	4,210	10-11-96	2:26p
AD_ALLOC.C	1,925	05-15-97	3:17p
AD_CTRL.C	5,051	06-09-95	4:42p
AD_MAIN.C	2,797	08-14-96	10:13a
AD.H	1,654	05-01-94	4:31p
COMP_AD.BAT	71	05-13-96	2:56p
CF.BAT	34	10-04-96	11:02a
LINK_AD.CMD	907	03-30-95	1:53p
TEST.CMD	200	07-11-96	12:02p
11 file(s)	16,849 bytes		

Directory of C:\CI_DIR

CI 1.4

.	<DIR>	09-18-97	11:02a
..	<DIR>	09-18-97	11:02a
CI_HSIO.C	5,503	07-09-97	10:06a
CI_SER.C	2,557	05-16-97	12:41p
CI_ROUTE.C	2,226	02-07-97	9:54a
CI_MAIN.C	7,816	06-17-97	11:31a
CL_ACPT.C	11,046	05-12-97	10:54a
CL_SEG.C	4,304	05-12-97	10:54a

CL_PKT.C	5,882	01-23-97	9:26a
CL_CXSUM.C	1,598	09-10-96	5:53a
CL_DPCMD.C	1,543	09-10-96	6:58a
CL_LOGPK.C	1,384	09-10-96	6:59a
CL_LOGTF.C	1,375	09-10-96	5:52a
CL_LOGCB.C	2,366	09-10-96	5:54a
CL_TYPIN.C	12,604	10-18-96	5:19p
CL_RCVHK.C	3,023	09-10-96	6:58a
CL_TFCTR.C	2,025	09-10-96	7:00a
CL_CTRL.C	4,944	02-06-97	4:04p
CL_CHHDR.C	11,341	09-11-96	8:27a
CL_ECC.C	1,121	05-12-97	12:59p
CL_VLSEQ.C	7,955	02-10-97	8:25a
CL_M2L.C	2,299	09-10-96	7:16a
CL_ARGS.C	3,042	10-11-96	1:58p
CL_CRC.C	3,805	02-10-97	8:23a
CL_UDP.C	5,044	06-19-97	11:33a
CL_INIT.C	9,732	05-13-97	3:15p
CL_PUTQ.C	1,146	06-17-97	11:24a
CL_ADDCB.C	10,051	06-19-97	3:15p
CL_BLOCK.C	6,646	05-12-97	10:55a
CL_LOG.C	11,063	02-10-97	8:31a
CL_TFCON.C	5,131	05-12-97	10:56a
CL_POLY.C	4,613	02-10-97	8:32a
CL_BYPAS.C	7,502	03-17-97	4:31p
CL_TFCHK.C	5,520	05-12-97	10:56a
CL_VLPKT.C	4,487	05-12-97	10:56a
CL_INIT.H	7,019	02-10-97	8:22a
CL_INCS.H	909	05-12-97	10:52a
CL_PKT.H	8,640	02-20-96	1:43p
CL_STR.H	4,379	05-09-97	3:53p
CL.H	4,386	05-12-97	1:00p
CL_DEF.H	2,099	02-28-97	11:41a
COMP_CI.BAT	1,321	05-12-97	10:45a
CF.BAT	34	10-02-96	5:31p
LINK_CI.CMD	1,356	05-12-97	10:46a
44 file(s)	200,837 bytes		

Directory of C:\DI_DIR

CI 1.4

.	<DIR>	09-18-97	11:02a
..	<DIR>	09-18-97	11:02a
DI_DUMP.C	2,509	10-03-96	5:57p
DI_MAIN.C	10,348	06-18-97	5:12p
DI_PUTQ.C	1,869	06-18-97	5:12p
DI_INIT.C	1,234	06-17-97	10:35a
DI.H	866	10-03-96	5:50p
COMP_DI.BAT	68	01-31-97	2:25p
CF.BAT	34	10-03-96	5:58p
LINK_DI.CMD	807	01-31-97	2:26p
10 file(s)	17,735 bytes		

Directory of C:\IN_DIR

CI 1.4

.	<DIR>	09-18-97	11:02a
..	<DIR>	09-18-97	11:02a
IN_MAIN.C	3,487	07-22-97	4:19p
IN_INIT.C	1,143	05-30-97	4:17p
IN_SOCK.C	1,837	07-11-97	9:44a
IN.H	769	07-11-97	9:47a
COMP_IN.BAT	60	07-11-97	9:51a
CF.BAT	34	10-04-96	11:10a
LINK_IN.CMD	766	07-11-97	9:51a
9 file(s)	8,096 bytes		

Directory of C:\MC_DIR

CI 1.4

.	<DIR>	09-18-97	11:02a
..	<DIR>	09-18-97	11:02a
MC_INIT.C	2,009	06-05-97	2:07p
MC_SUBS.C	3,874	09-10-96	7:05a
MC_CTRL.C	1,449	09-10-96	7:05a
MC_FUNC.C	1,591	02-19-97	2:26p
MC_HASH.C	1,356	09-10-96	7:07a
MC_FIND.C	1,508	09-10-96	7:00a
MC_MSG.C	5,849	04-24-97	8:51a
MC_SETVR.C	1,500	03-17-97	2:57p
MC_IDEN.C	6,123	04-17-97	8:27a
MC_CMDS.C	4,793	04-17-97	8:26a
MC_PSEND.C	4,045	03-17-97	2:56p
MC_VERS.C	3,018	12-12-96	1:03p
MC_CHKFX.C	2,752	01-29-97	5:23p
MC_CHKVR.C	2,834	07-23-96	12:30p
MC_NRML.C	7,281	04-24-97	8:40a
MC_PUTQ.C	1,164	06-17-97	11:40a
MC_XQT.C	3,916	06-09-97	12:31p
MC_OP CMD.C	5,024	06-17-97	11:41a
MC_MAIN.C	3,882	06-10-97	10:10a
MC_INCS.H	581	03-07-95	11:52a
MC_PROTO.H	2,973	05-20-97	4:32p
MC.H	2,779	04-03-97	10:37a
COMP_MC.BAT	1,552	06-05-97	3:08p
CF.BAT	34	10-04-96	12:35p
LINK_MC.CMD	1,638	06-05-97	3:09p
27 file(s)	73,525 bytes		

Directory of C:\MO_DIR

CI 1.4

.	<DIR>	09-18-97	11:02a
..	<DIR>	09-18-97	11:02a
MO_CHMD2.C	5,380	08-08-97	3:54p
MO_CHMOD.C	4,680	08-10-97	1:45p
MO_COS.C	1,692	09-03-97	1:51p
MO_DISMO.C	7,962	08-13-96	4:49p
MO_EXP.C	1,903	09-03-97	1:52p
MO_HASH.C	1,309	08-12-96	5:12p
MO_HINS.C	10,879	09-02-97	9:45a
MO_HSRCH.C	2,446	08-13-96	2:45p

MO_INIT.C	1,902	09-16-96	4:16p
MO_RDALG.C	4,983	08-13-97	10:02a
MO_RDTLM.C	6,381	09-05-97	2:12p
MO_RDTBL.C	6,711	08-13-97	12:34p
MO_RAMP.C	1,852	01-17-95	1:48p
MO_SIN.C	2,081	09-03-97	1:54p
MO_TBL.C	8,669	09-05-97	3:57p
MO_UPDA.C	5,194	09-05-97	3:54p
MO_ACTIV.C	4,096	08-13-97	4:59p
MO_DSPLY.C	1,471	10-01-96	3:34p
MO_SEND.C	6,867	09-03-97	2:05p
MO_MAIN.C	9,890	09-05-97	2:23p
MO_STR.H	4,810	08-29-97	4:51p
MO.H	2,439	08-29-97	1:48p
MO_PROTO.H	2,290	08-10-97	2:29p
MO_INCS.H	808	08-10-97	1:46p
MO_DEF.H	921	08-29-97	2:28p
COMP_MO.BAT	434	08-29-97	4:40p
CF.BAT	34	09-12-96	4:29p
LINK_MO.CMD	1,322	08-29-97	4:41p
MO_NSE.C	3,281	08-29-97	4:05p
31 file(s)	112,687 bytes		

Directory of C:\MT_DIR

CI 1.4

.	<DIR>	09-18-97	11:02a
..	<DIR>	09-18-97	11:02a
MT_PARMS.C	4,041	08-07-96	10:40a
MT_MAIN.C	2,896	09-17-96	4:07p
MT_CPRRM.C	1,356	06-12-96	11:11a
MT_LOC.C	7,963	04-08-97	5:12p
MT_DISC.C	4,158	07-19-96	1:04p
MT_FIND.C	1,582	06-10-96	11:59a
MT_HASH.C	1,309	06-10-96	11:59a
MT_SET.C	6,995	05-09-97	10:37a
MT_DSPLY.C	8,147	04-08-97	4:48p
MT_SHOW.C	3,512	06-12-96	2:09p
MT CVEUA.C	2,068	06-21-96	2:39p
MT_CVTEU.C	2,673	06-17-96	5:03p
MT_CVTRW.C	2,220	06-21-96	2:40p
MT_PTRTB.C	2,415	02-06-97	4:25p
MT_SETTL.C	3,241	12-03-96	3:47p
MT_IVALU.C	2,490	12-04-96	11:39a
MT_UPD.C	2,330	09-17-96	5:11p
MT_GETTL.C	7,380	05-14-97	11:02a
MT_SETAP.C	4,892	04-03-97	3:03p
MT_INCS.H	622	06-10-96	12:05p
MT_IPTRT.H	666	06-12-96	11:17a
MT_IVALU.H	1,617	09-20-94	11:10a
MT_PROTO.H	2,622	05-14-97	11:22a
MT.H	1,266	03-28-95	11:53a
COMP_MT.BAT	296	09-05-96	4:57p
CF.BAT	34	09-16-96	5:19p
LINK_MT.CMD	1,038	10-15-96	10:41a

29 file(s) 79,829 bytes

Directory of C:\NETWORK

CI 1.4

.	<DIR>	09-18-97	11:03a
..	<DIR>	09-18-97	11:03a
SEND.C	4,103	07-08-97	8:17a
MOMDSIM.C	5,508	09-11-97	10:13a
MOMD.C	2,322	05-16-97	9:00a
MREC.C	2,862	05-27-97	1:13p
MULT.C	11,409	08-09-97	12:15p
UDPT2.C	3,551	07-07-97	2:55p
MUDP1.C	2,508	05-16-97	8:54a
SSEND.C	9,221	06-17-97	11:08a
MTEST.C	6,837	05-19-97	8:57a
MMSEND.C	3,210	05-20-97	4:26p
UDPSEND.C	3,489	06-13-97	10:52a
PSEND.C	10,414	06-19-97	4:13p
UDPT1.C	2,712	07-07-97	2:54p
DEMO.H	4,057	05-16-97	11:37a
CF.BAT	30	01-14-97	1:12a
COMP_NET.BAT	74	08-15-97	10:16a
SEND.CMD	190	07-25-96	10:17p
UDPT1.CMD	191	08-01-96	10:55a
UDPT2.CMD	191	08-15-96	12:27a
MULT.CMD	190	05-07-97	12:45p
MSEND.CMD	191	05-08-97	11:37a
SSEND.CMD	191	05-13-97	10:57a
MTEST.CMD	191	05-19-97	8:48a
MREC.CMD	190	05-27-97	12:29p
MMSEND.CMD	192	05-20-97	12:34p
MOMDSIM.CMD	193	08-08-97	1:55p
UDPSEND.CMD	193	05-29-97	8:25a
PSEND.CMD	191	06-19-97	9:29a
SEND.SY	18,788	08-08-97	10:59a
UDPT1.SY	16,804	08-08-97	10:59a
UDPT2.SY	16,804	08-08-97	10:59a
MULT.SY	22,936	08-09-97	11:54a
MOMDSIM.SY	17,246	08-14-97	4:33p
35 file(s)	167,179 bytes		

Directory of C:\OP_DIR

CI 1.4

.	<DIR>	09-18-97	11:03a
..	<DIR>	09-18-97	11:03a
OP_ERMSG.C	1,718	05-10-94	2:45p
OP_MMSG.C	2,018	09-10-93	5:40p
OP_MSG.C	1,235	12-01-93	6:12p
OP_NMSG.C	1,669	09-10-93	5:41p
OP_SMSGO.C	1,365	09-10-93	5:42p
OP_SMSG.C	4,370	07-17-96	4:03p
OP_QMGR.C	5,612	11-16-93	12:56p
OP_XMIT.C	1,658	11-04-93	4:17p
OP_MAIN.C	3,655	05-10-94	2:45p

OP_DBMSG.C	2,233	11-04-93	4:16p
OP_STATN.C	2,969	01-24-94	12:30p
OP_QOPTS.C	3,841	01-24-94	12:32p
OP_LROW.C	3,708	01-14-94	2:49p
OP_SROW.C	3,596	01-14-94	2:55p
OP_STATC.C	5,804	01-24-94	12:30p
COMP_OP.BAT	288	10-04-96	11:03a
CF.BAT	34	10-04-96	11:05a
LINK_OP.CMD	962	05-29-97	4:34p
20 file(s)	46,735 bytes		

Directory of C:\SC_DIR

CI 1.4

.	<DIR>	09-18-97	11:03a
..	<DIR>	09-18-97	11:03a
SC_ALOAD.C	3,383	07-25-97	11:05a
SC_INIT.C	4,234	08-04-97	2:48p
SC_MAIN.C	5,137	08-10-97	1:30p
SC_TNEXT.C	2,704	08-04-97	1:23p
SC_UTILS.C	6,251	08-06-97	5:06p
SC_DOATP.C	9,167	06-17-97	11:54a
SC_RSTRT.C	3,221	08-04-97	1:48p
SC_DORTP.C	3,828	06-17-97	11:55a
SC_CMDS.C	13,252	08-04-97	1:54p
SC_INIT.H	1,427	08-04-97	1:19p
SC.H	3,411	08-04-97	11:45a
SC_PROTO.H	1,003	05-08-97	9:56a
SC_PKT.H	6,381	07-25-97	9:35a
SC_INCS.H	1,160	05-09-97	9:20a
COMP_SC.BAT	835	04-03-97	2:14p
CF.BAT	34	10-04-96	12:34p
LINK_SC CMD	990	04-03-97	2:17p
19 file(s)	66,418 bytes		

Directory of C:\TI_DIR

CI 1.4

.	<DIR>	09-18-97	11:03a
..	<DIR>	09-18-97	11:03a
TI_WRITE.C	2,004	09-27-94	4:04p
TI_INIT.C	5,920	07-09-97	9:21a
TI_ASCTM.C	2,302	10-28-94	6:35p
TI_WAIT.C	1,587	09-27-94	4:03p
TI_SETSL.C	2,047	09-13-93	2:55p
TI_SLEEP.C	2,160	03-03-94	5:26p
TI_SETGM.C	2,281	07-22-96	2:37p
TI_TO_SC.C	1,609	04-24-95	1:34p
TI_GETGM.C	1,402	09-27-94	3:45p
TI_DELAY.C	1,034	09-27-94	3:44p
TI_GETSC.C	1,230	09-27-94	3:47p
TI_SETSC.C	2,042	08-08-97	3:21p
TI_ACCEL.C	1,684	11-02-94	7:00p
LOG_CORR.C	814	12-29-94	2:38p
TI_MAIN.C	8,569	10-10-96	11:34a
TI_READ.C	6,602	04-14-95	3:42p

TI_SC_SL.C	1,704	04-14-95	2:57p
TI_TO_YD.C	1,843	04-12-94	4:48p
TI_1HZ.C	12,260	07-19-96	1:47p
TI_SBUTD.C	3,124	09-27-94	3:54p
TI_ADUTD.C	3,200	07-01-94	1:36p
TI_ADDUT.C	6,727	09-27-94	3:33p
TI_CMDS.C	8,059	04-24-95	1:35p
TI_UTILS.C	9,384	01-13-95	4:02p
TI_SUBUT.C	5,528	06-30-94	7:05p
TI_CORR.C	6,009	01-23-95	2:24p
TI_DOCOR.C	5,033	01-16-95	3:57p
TI_NCC.C	23,640	02-06-95	3:34p
TI_334.C	9,402	08-04-95	5:27p
TI_SETNS.C	3,385	10-11-94	5:54p
TI_PB5C.C	3,166	08-28-96	1:40p
TI_INCS.H	728	08-06-96	6:21a
TI_STR.H	1,855	01-05-96	1:16p
TL.H	7,248	08-06-96	6:20a
TI_INIT.H	2,458	12-30-94	11:50a
TI_PROTO.H	3,744	02-06-95	3:19p
DEMO.H	2,556	01-17-95	2:53p
TI_334.H	3,034	08-04-95	5:23p
TI_PKT.H	8,880	07-01-94	1:15p
TI_NCC.H	2,526	01-04-95	12:05p
COMP_TI.BAT	547	09-09-96	3:53p
CF.BAT	34	10-04-96	11:13a
BIL.BAT	36	10-04-96	2:28p
LINK_TI.CMD	1,238	08-06-96	6:04a
46 file(s)	180,635 bytes		

Directory of C:\UT_DIR

CI 1.4

.	<DIR>	09-18-97	11:03a
..	<DIR>	09-18-97	11:03a
UT_GET.C	3,156	10-05-94	8:48p
FQ2.C	4,251	06-18-96	4:05p
FQ2.H	3,942	06-18-96	2:33p
COMP_UT.BAT	31	01-13-97	11:07p
6 file(s)	11,380 bytes		

Total files listed:

301 file(s) 981,905 bytes
451,149,824 bytes free

MPS Release 1.3.0 MVME177 Source Software (Floppy Disk 3 of 4), 9/19/97

Volume in drive C has no label
Volume Serial Number is 2134-17E2

Directory of C:\DIS3

CI 1.4

.	<DIR>	09-18-97	10:49a
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..	<DIR>	09-18-97	10:49a
BLD1_3	<DIR>	09-18-97	10:51a
PKUNZIP EXE	28,959	02-01-93	2:04a
4 file(s)	28,959 bytes		

Directory of C:\BLD1_3

CI 1.4

.	<DIR>	09-18-97	10:51a
..	<DIR>	09-18-97	10:51a
ACPT	<DIR>	09-18-97	10:51a
DBACPT	<DIR>	09-18-97	10:52a
RUNACPT	50	08-15-97	10:57a
CLEAR	21	08-15-97	10:57a
6 file(s)	71 bytes		

Directory of C:\BLD1_3\ACPT

CI 1.4

.	<DIR>	09-18-97	10:51a	
..	<DIR>	09-18-97	10:51a	
AC.BKP	821	08-15-97	10:57a	
MOMDSIM.SY	17,246	08-15-97	10:58a	
SEND.SY	18,788	08-15-97	10:58a	
UDPT1.SY		16,804	08-15-97	10:58a
UDPT2.SY		16,804	08-15-97	10:58a
XAD	16,476	08-15-97	10:58a	
XCI	34,602	08-15-97	10:58a	
XDI	18,412	08-15-97	10:58a	
XDS	20,968	08-15-97	10:58a	
XGT	18,964	08-15-97	10:58a	
XIN	17,824	08-15-97	10:58a	
XMC	25,328	08-15-97	10:58a	
XMO	34,016	09-05-97	3:57p	
XMT	23,408	08-15-97	10:58a	
XOP	18,736	08-15-97	10:58a	
XSC	22,072	08-15-97	10:58a	
XSM	32,498	08-15-97	10:58a	
XTI	37,118	08-15-97	10:58a	
XTO	36,800	08-15-97	10:58a	
XTY	34,916	08-15-97	10:58a	
XXT	31,500	08-15-97	10:58a	
23 file(s)	494,101 bytes			

Directory of C:\BLD1_3\DBACPT

CI 1.4

.	<DIR>	09-18-97	10:52a
..	<DIR>	09-18-97	10:52a
CONTIG.AC	427	08-15-97	11:00a
IP1.GUI	75	08-15-97	3:52p
IP1.OP	112	08-15-97	11:00a
IP1.SIM	114	08-15-97	11:00a
IP1.TST	114	08-15-97	11:00a
MDL_ALGS.MDB	34	08-15-97	11:00a
MDL_ALGS.INP	401	08-15-97	11:01a
MDL_TBLS.NP	527	08-15-97	11:01a

MDL_TBLS.MDB	38,466	08-15-97	11:01a
MDL_TLM.MDB	610	08-15-97	11:01a
MDL_TLM.INP	714	08-15-97	11:01a
PORTS.OP	279	08-15-97	11:01a
PORTS.SIM	279	08-15-97	11:01a
PORTS.TST	279	08-15-97	11:01a
RENAME.AC	168	08-15-97	11:01a
TLM_CALC.PDB	105,188	08-15-97	11:02a
TLM_POLY.PDB	33,240	08-15-97	11:02a
XMDB	63,332	09-02-97	6:47p
CODA.PRT	65	09-10-97	2:05p
CODA.IP	83	09-11-97	9:23a
22 file(s)	244,507 bytes		

Total files listed:

55 file(s)	767,638 bytes
	451,133,440 bytes free

MPS Release 1.3.0 MYME177 Data Base Files (Floppy Disk 4 of 4), 9/19/97

Volume in drive C has no label

Volume Serial Number is 2134-17E2

Directory of C:\DISK4

CI 1.6

.	<DIR>	09-18-97	11:30a
..	<DIR>	09-18-97	11:30a
PDBVER12.ZIP	661,193	08-15-97	11:22a
3 file(s)	661,193 bytes		

Total files listed:

3 file(s)	661,193 bytes
	451,117,056 bytes free

MPS Release 1.3.0 NVME187 Source Software (4mm tape), 9/19/97

rwxr-xr-x	0	Sep 18 07:20 1997	./	
rwxr-xr-x	0	Sep 18 06:58 1997	./INSTALL/	CI 1.3
r-xr--r--	4633	Jul 24 15:30 1997	./INSTALL/ets_build	
r--r--r--	1656	Jul 24 15:30 1997	./INSTALL/ets_build_procedure	
r-xr--r--	13571	Jul 24 15:30 1997	./INSTALL/ets_deliver	
r--r--r--	1235	Jul 24 15:30 1997	./INSTALL/ets_delivery_procedure	
r-xr--r--	8341	Jul 24 15:30 1997	./INSTALL/ets_install	
r-xr--r--	5729	Jul 24 15:30 1997	./INSTALL/ets_mkdir	
r-xr--r--	5975	Jul 24 15:30 1997	./INSTALL/ets_setup	
r-xr--r--	8341	Jul 24 15:30 1997	./ets_install	
rwxr-xr-x	0	Sep 18 06:58 1997	./include/	CI 1.3
r--r--r--	1120	Jul 24 15:30 1997	./include/ETSCComboBox.h	
r--r--r--	2057	Jul 24 15:30 1997	./include/ETSCountForm.h	
r--r--r--	1440	Jul 24 15:30 1997	./include/ETSSpinner.h	
r--r--r--	1467	Jul 24 15:30 1997	./include/ETSSpinner2.h	
r--r--r--	1553	Jul 24 15:30 1997	./include/ansi_setup.h	

r--r--r--	2609	Jul 24 15:30 1997	./include/cau.h
r--r--r--	2221	Jul 24 15:30 1997	./include/cobl_util.h
r--r--r--	1457	Jul 24 15:30 1997	./include/crlf_util.h
r--r--r--	896	Jul 24 15:30 1997	./include/cuw.h
r--r--r--	1137	Jul 24 15:30 1997	./include/dae_util.h
r-xr-xr-x	1933	Jul 24 15:30 1997	./include/dct.h
r--r--r--	7794	Jul 24 15:30 1997	./include/dct_crstuff.h
r--r--r--	1480	Jul 24 15:30 1997	./include/dct_packet.h
r--r--r--	1111	Jul 24 15:30 1997	./include/dct_status.h
r--r--r--	1403	Jul 24 15:30 1997	./include/dct_utils.h
r--r--r--	5952	Jul 24 15:30 1997	./include/dct_verify.h
r--r--r--	2058	Jul 24 15:30 1997	./include/drs_util.h
r--r--r--	1888	Jul 24 15:30 1997	./include/dui.h
r--r--r--	1411	Jul 24 15:30 1997	./include/duw.h
r-xr-xr-x	1990	Jul 24 15:30 1997	./include/dvt.h
r--r--r--	7942	Jul 24 15:30 1997	./include/dvt_crstuff.h
r--r--r--	1417	Jul 24 15:30 1997	./include/dvt_packet.h
r--r--r--	1251	Jul 24 15:30 1997	./include/dvt_status.h
r--r--r--	1340	Jul 24 15:30 1997	./include/dvt_utils.h
r--r--r--	5568	Jul 24 15:30 1997	./include/dvt_verify.h
r--r--r--	1087	Jul 24 15:30 1997	./include/environ.h
r--r--r--	2685	Jul 24 15:30 1997	./include/ets.h
r--r--r--	2395	Jul 24 15:30 1997	./include/fnm_util.h
r--r--r--	2011	Jul 24 15:30 1997	./include/gen.h
r--r--r--	1555	Jul 24 15:30 1997	./include/get_util.h
r--r--r--	3034	Jul 24 15:30 1997	./include/gui.h
r--r--r--	2461	Jul 24 15:30 1997	./include/hash_util.h
r--r--r--	3373	Jul 24 15:30 1997	./include/ipc_ets.h
r--r--r--	2936	Jul 24 15:30 1997	./include/lfn_util.h
r--r--r--	33680	Jul 24 15:30 1997	./include/longlong.h
r--r--r--	3342	Jul 24 15:30 1997	./include/meds.h
r--r--r--	1870	Jul 24 15:30 1997	./include/medshdr.h
r--r--r--	1226	Jul 24 15:30 1997	./include/medstype.h
r--r--r--	839	Jul 24 15:30 1997	./include/medsver.h
r--r--r--	2989	Jul 24 15:30 1997	./include/meo_util.h
r--r--r--	2645	Jul 24 15:30 1997	./include/mist_util.h
r--r--r--	3998	Jul 24 15:30 1997	./include/mmc.h
r--r--r--	13754	Jul 24 15:30 1997	./include/mps.h
r--r--r--	874	Jul 24 15:30 1997	./include/muc_scenario.h
r--r--r--	5162	Jul 24 15:30 1997	./include/mui.h
r--r--r--	467	Jul 24 15:30 1997	./include/mui_scenario_constants.h
r--r--r--	6684	Jul 24 15:30 1997	./include/muw.h
r--r--r--	1419	Jul 24 15:30 1997	./include/net_util.h
r--r--r--	3797	Jul 24 15:30 1997	./include/nft_proc.h
r--r--r--	4973	Jul 24 15:30 1997	./include/nft_util.h
r--r--r--	4432	Jul 24 15:30 1997	./include/nix_util.h
r--r--r--	1646	Jul 24 15:30 1997	./include/om_acc_noti_struct.h
r--r--r--	12682	Jul 24 15:30 1997	./include/om_coda_struct.h
r--r--r--	1555	Jul 24 15:30 1997	./include/om_counter_struct.h
r--r--r--	1303	Jul 24 15:30 1997	./include/om_dlg.h
r--r--r--	4311	Jul 24 15:30 1997	./include/om_eds_pds_struct.h
r--r--r--	1040	Jul 24 15:30 1997	./include/om_hrs_data_struct.h
r--r--r--	513	Jul 24 15:30 1997	./include/om_hrs_names.h
r--r--r--	2252	Jul 24 15:30 1997	./include/om_lrs_data_struct.h

r--r--r--	7292	Jul 24 15:30 1997	./include/om_lrs_names.h
r--r--r--	855	Jul 24 15:30 1997	./include/om_pb_5_struct.h
r--r--r--	8227	Jul 24 15:30 1997	./include/om_tss_struct.h
r--r--r--	5548	Jul 24 15:30 1997	./include/omd.h
r--r--r--	2847	Jul 24 15:30 1997	./include/omd_struct.h
r--r--r--	2915	Jul 24 15:30 1997	./include/opt_util.h
r--r--r--	5635	Jul 24 15:30 1997	./include/oui.h
r--r--r--	2536	Jul 24 15:30 1997	./include/ouw.h
r--r--r--	861	Jul 24 15:30 1997	./include/quad_struct.h
r--r--r--	3023	Jul 24 15:30 1997	./include/rbu.h
r--r--r--	11511	Jul 24 15:30 1997	./include/rex_internals.h
r--r--r--	2619	Jul 24 15:30 1997	./include/rex_util.h
r--r--r--	952	Jul 24 15:30 1997	./include/ruw.h
r--r--r--	1692	Jul 24 15:30 1997	./include/skt_util.h
r--r--r--	2950	Jul 24 15:30 1997	./include/stan_util.h
r--r--r--	3351	Jul 24 15:30 1997	./include/str_util.h
r--r--r-x	3181	Jul 24 15:30 1997	./include/tcp_util.h
r--r--r--	2263	Jul 24 15:30 1997	./include/ts_util.h
r--r--r--	1367	Jul 24 15:30 1997	./include/tss_id_struct.h
r--r--r--	2086	Jul 24 15:30 1997	./include/tv_util.h
r--r--r--	2779	Jul 24 15:30 1997	./include/udp_util.h
r--r--r--	1770	Jul 24 15:30 1997	./include/v perror.h
r--r--r--	1818	Jul 24 15:30 1997	./include/vui.h
r--r--r--	1300	Jul 24 15:30 1997	./include/vuw.h
r--r--r--	2947	Jul 24 15:30 1997	./include/xnet_util.h
r-xr-xr-x	5541	Jul 24 15:30 1997	./include/xxx_TransEnv.h
r-xr-xr-x	5434	Jul 24 15:30 1997	./include/xxx_Types.h
r-xr-xr-x	12602	Jul 24 15:30 1997	./include/xxx_db_Defs.h
r-xr-xr-x	2586	Jul 24 15:30 1997	./include/xxx_ipc.h
r-xr-xr-x	4559	Jul 24 15:30 1997	./include/xxx_network.h
rwxr-xr-x	0	Sep 18 06:58 1997	./lib/
rwxr-xr-x	0	Sep 18 06:58 1997	./lib/gui/
r--r--r--	8268	Jul 24 15:30 1997	./lib/gui/ETSComboBox.c
r--r--r--	3965	Jul 24 15:30 1997	./lib/gui/ETSComboBox.uil
r--r--r--	17070	Jul 24 15:30 1997	./lib/gui/ETSCountForm.c
r--r--r--	8188	Jul 24 15:30 1997	./lib/gui/ETSCountForm.uil
r--r--r--	9596	Jul 24 15:30 1997	./lib/gui/ETSSpinner.c
r--r--r--	4196	Jul 24 15:30 1997	./lib/gui/ETSSpinner.uil
r--r--r--	10091	Jul 24 15:30 1997	./lib/gui/ETSSpinner2.c
r--r--r--	4543	Jul 24 15:30 1997	./lib/gui/ETSSpinner2.uil
r--r--r--	1020	Jul 24 15:30 1997	./lib/gui/ets_widget.mk
r--r--r--	1110	Jul 24 15:30 1997	./lib/gui/ets_widget_vme.mk
r--r--r--	1651	Jul 24 15:30 1997	./lib/gui/guc_class.c
r--r--r--	5584	Jul 24 15:30 1997	./lib/gui/guc_combo_box_funcs.c
r--r--r--	4333	Jul 24 15:30 1997	./lib/gui/guc_count_funcs.c
r--r--r--	12703	Jul 24 15:30 1997	./lib/gui/guc_help_funcs.c
r--r--r--	4071	Jul 24 15:30 1997	./lib/gui/guc_hex_modify_verify.c
r--r--r--	4821	Jul 24 15:30 1997	./lib/gui/guc_int_check_range.c
r--r--r--	4967	Jul 24 15:30 1997	./lib/gui/guc_int_modify_verify.c
r--r--r--	7103	Jul 24 15:30 1997	./lib/gui/guc_int_spin_funcs.c
r--r--r--	5103	Jul 24 15:30 1997	./lib/gui/guc_oct_modify_verify.c
r--r--r--	1857	Jul 24 15:30 1997	./lib/gui/guc_toupper.c
r--r--r--	9757	Jul 24 15:30 1997	./lib/gui/guf_ask_user_funcs.c
r--r--r--	3081	Jul 24 15:30 1997	./lib/gui/guf_busy_cursor_funcs.c

CI 1.3

r--r--r--	14008	Jul 24 15:30 1997	./lib/gui/guf_log_funcs.c
r--r--r--	7363	Jul 24 15:30 1997	./lib/gui/guf_popup_file_sel_box.c
r--r--r--	6194	Jul 24 15:30 1997	./lib/gui/guf_popup_message_box.c
r--r--r--	6717	Jul 24 15:30 1997	./lib/gui/guf_popup_prompt_box.c
r--r--r--	2246	Jul 24 15:30 1997	./lib/gui/gui.mk
r--r--r--	2064	Jul 24 15:30 1997	./lib/gui/gui_vme.mk
rwxr-xr-x	0	Sep 18 06:58 1997	./lib/gen/
r--r--r--	1096	Jul 24 15:30 1997	./lib/gen/gen.mk
r--r--r--	1119	Jul 24 15:30 1997	./lib/gen/gen_vme.mk
r--r--r--	5265	Jul 24 15:30 1997	./lib/gen/gnf_get_current_time.c
r--r--r--	9517	Jul 24 15:30 1997	./lib/gen/gnf_pb5_time_funcs.c
r--r--r--	6799	Jul 24 15:30 1997	./lib/gen/gnf_separate_lines.c
r-xr-xr-x	4743	Jul 24 15:30 1997	./lib/build_lib
rwxr-xr-x	0	Sep 18 06:58 1997	./lib/ ipc/
r--r--r--	1805	Jul 24 15:30 1997	./lib/ ipc/ ipc.mk
r--r--r--	3302	Jul 24 15:30 1997	./lib/ ipc/ ipc_client_socket.c
r--r--r--	12181	Jul 24 15:30 1997	./lib/ ipc/ ipc_fifo_funcs.c
r--r--r--	3587	Jul 24 15:30 1997	./lib/ ipc/ ipc_server_socket.c
r--r--r--	1537	Jul 24 15:30 1997	./lib/ ipc/ ipc_vme.mk
r-xr-xr-x	8057	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_accept.c
r-xr-xr-x	14165	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_client.c
r-xr-xr-x	4213	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_close.c
r-xr-xr-x	2910	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_clr.c
r-xr-xr-x	3430	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_isset.c
r-xr-xr-x	11628	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_read.c
r-xr-xr-x	12001	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_read1.c
r-xr-xr-x	9494	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_rsdb.c
r-xr-xr-x	5805	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_select.c
r-xr-xr-x	16393	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_server.c
r-xr-xr-x	2899	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_set.c
r-xr-xr-x	13268	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_write.c
r-xr-xr-x	13432	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_write1.c
r-xr-xr-x	12143	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_write2.c
r-xr-xr-x	2992	Jul 24 15:30 1997	./lib/ ipc/ xxx_ipc_zero.c
rwxr-xr-x	0	Sep 18 06:58 1997	./lib/ net/
r--r--r--	2522	Jul 24 15:30 1997	./lib/ net/ clientLFN.c
r--r--r--	2776	Jul 24 15:30 1997	./lib/ net/ clientSTAN.c
r--r--r--	2260	Jul 24 15:30 1997	./lib/ net/ clientTCP.c
r--r--r--	2622	Jul 24 15:30 1997	./lib/ net/ clientUDP.c
r--r--r--	2368	Jul 24 15:30 1997	./lib/ net/ clientXNET.c
r--r--r--	15063	Jul 24 15:30 1997	./lib/ net/ cobl_util.c
r--r--r--	11368	Jul 24 15:30 1997	./lib/ net/ crlf_util.c
r--r--r--	4834	Jul 24 15:30 1997	./lib/ net/ dae_util.c
r--r--r--	18262	Jul 24 15:30 1997	./lib/ net/ drs_util.c
r--r--r--	32923	Jul 24 15:30 1997	./lib/ net/ fnm_util.c
r--r--r--	2580	Jul 24 15:30 1997	./lib/ net/ ftpd.c
r--r--r--	16780	Jul 24 15:30 1997	./lib/ net/ get_util.c
r--r--r--	26798	Jul 24 15:30 1997	./lib/ net/ hash_util.c
r--r--r--	34409	Jul 24 15:30 1997	./lib/ net/ lfn_util.c
r--r--r--	3271	Jul 24 15:30 1997	./lib/ net/ libnet.mk
r--r--r--	20353	Jul 24 15:30 1997	./lib/ net/ meo_util.c
r--r--r--	26295	Jul 24 15:30 1997	./lib/ net/ mist_util.c
r--r--r--	15705	Jul 24 15:30 1997	./lib/ net/ net_util.c
r--r--r--	43592	Jul 24 15:30 1997	./lib/ net/ nft_proc.c

r--r--r--	67555	Jul 24 15:30 1997	./lib/net/nft_util.c
r--r--r--	50202	Jul 24 15:30 1997	./lib/net/nix_util.c
r--r--r--	54782	Jul 24 15:30 1997	./lib/net/opt_util.c
r--r--r--	7111	Jul 24 15:30 1997	./lib/net/rdate.c
r--r--r--	63132	Jul 24 15:30 1997	./lib/net/rex_util.c
r--r--r--	59987	Jul 24 15:30 1997	./lib/net/rex_util_y.c
r--r--r--	43088	Jul 24 15:30 1997	./lib/net/rex_util_y.y
r--r--r--	2252	Jul 24 15:30 1997	./lib/net/serverLFN.c
r--r--r--	2462	Jul 24 15:30 1997	./lib/net/serverSTAN.c
r--r--r--	2080	Jul 24 15:30 1997	./lib/net/serverTCP.c
r--r--r--	2096	Jul 24 15:30 1997	./lib/net/serverUDP.c
r--r--r--	2268	Jul 24 15:30 1997	./lib/net/serverXNET.c
r--r--r--	14706	Jul 24 15:30 1997	./lib/net/skt_util.c
r--r--r--	35185	Jul 24 15:30 1997	./lib/net/stan_util.c
r--r--r--	35955	Jul 24 15:30 1997	./lib/net/str_util.c
r--r--r--	20584	Jul 24 15:30 1997	./lib/net/talknet.c
r--r--r--	53336	Jul 24 15:30 1997	./lib/net/tcp_util.c
r--r--r--	14277	Jul 24 15:30 1997	./lib/net/ts_util.c
r--r--r--	14573	Jul 24 15:30 1997	./lib/net/tv_util.c
r--r--r--	35182	Jul 24 15:30 1997	./lib/net/udp_util.c
r--r--r--	6099	Jul 24 15:30 1997	./lib/net/vperror.c
r--r--r--	40808	Jul 24 15:30 1997	./lib/net/xnet_util.c
rwxr-xr-x	0	Sep 18 06:58 1997	./mc/
rwxr-xr-x	0	Sep 18 06:58 1997	./mc/mc_ui/
r-xr-xr-x	90837	Jul 24 15:30 1997	./mc/mc_ui/bxutil-c.c
r--r--r--	3060	Jul 24 15:30 1997	./mc/mc_ui/mmc.mk
r--r--r--	4542	Jul 24 15:30 1997	./mc/mc_ui/mmc_close.c
r--r--r--	5463	Jul 24 15:30 1997	./mc/mc_ui/mmc_icon_callback.c
r--r--r--	3722	Jul 24 15:30 1997	./mc/mc_ui/mmc_init_icon.c
r--r--r--	10074	Jul 24 15:30 1997	./mc/mc_ui/mmc_init_tabl.c
r-xr-xr-x	6810	Jul 24 15:30 1997	./mc/mc_ui/mmc_main.c
r--r--r--	2670	Jul 24 15:30 1997	./mc/mc_ui/mmc_mps.mk
r--r--r--	4375	Jul 24 15:30 1997	./mc/mc_ui/mmc_popup_error.c
r-xr-xr-x	12398	Jul 24 15:30 1997	./mc/build_mc
r-xr-xr-x	1249	Jul 24 15:30 1997	./mc/mmc_hrs_dct_start.csh
r-xr-xr-x	1519	Jul 24 15:30 1997	./mc/mmc_hrs_dct_stop.csh
r-xr-xr-x	1258	Jul 24 15:30 1997	./mc/mmc_hrs_dvt_start.csh
r-xr-xr-x	1498	Jul 24 15:30 1997	./mc/mmc_hrs_dvt_stop.csh
r-xr-xr-x	1127	Jul 24 15:30 1997	./mc/mmc_hrs_omd_start.csh
r-xr-xr-x	1359	Jul 24 15:30 1997	./mc/mmc_hrs_omd_stop.csh
r-xr-xr-x	1724	Jul 24 15:30 1997	./mc/mmc_hrs_sctgen_start.csh
r-xr-xr-x	1702	Jul 24 15:30 1997	./mc/mmc_hrs_sctgen_stop.csh
r-xr-xr-x	1546	Jul 24 15:30 1997	./mc/mmc_hrs_tpce_start.csh
r-xr-xr-x	1845	Jul 24 15:30 1997	./mc/mmc_hrs_tpce_stop.csh
r-xr-xr-x	2215	Jul 24 15:30 1997	./mc/mmc_kill_processes.ksh
r--r--r--	1443	Jul 24 15:30 1997	./mc/mmc_lrs_icon_file
r-xr-xr-x	1137	Jul 24 15:30 1997	./mc/mmc_lrs_omd_start.csh
r-xr-xr-x	1358	Jul 24 15:30 1997	./mc/mmc_lrs_omd_stop.csh
r-xr-xr-x	3905	Jul 24 15:30 1997	./mc/mmc_lrs_tpce_start.csh
r-xr-xr-x	1883	Jul 24 15:30 1997	./mc/mmc_lrs_tpce_stop.csh
r-xr-xr-x	984	Jul 24 15:30 1997	./mc/mmc_mps_exec_start.csh
r-xr-xr-x	1327	Jul 24 15:30 1997	./mc/mmc_mps_exec_stop.csh
r--r--r--	1943	Jul 24 15:30 1997	./mc/mmc_mps_icon_file
r-xr-xr-x	1007	Jul 24 15:30 1997	./mc/mmc_mps_omd_start.csh

CI 1.3

r-xr-xr-x	1367	Jul 24 15:30 1997	./mc/mmc_mps_omd_stop.csh	
r-xr-xr-x	1121	Jul 24 15:30 1997	./mc/mmc_mps_pdb_start.csh	
r-xr-xr-x	1325	Jul 24 15:30 1997	./mc/mmc_mps_pdb_stop.csh	
r--r--r--	2964	Jul 24 15:30 1997	./mc/mmc_sample_icon_file	
r-xr-xr-x	1941	Jul 24 15:30 1997	./mc/mmc_start_stop_process.csh	
rwxr-xr-x	0	Sep 18 06:58 1997	./omdsim/	CI 1.5
rwxr-xr-x	0	Sep 18 06:58 1997	./omdsim/om_de/	
r--r--r--	6482	Jul 24 15:30 1997	./omdsim/om_de/om_delog.c	
r--r--r--	1845	Jul 24 15:30 1997	./omdsim/om_de/om_delog.mk	
r--r--r--	1559	Jul 24 15:30 1997	./omdsim/om_de/om_delog_vme.mk	
r--r--r--	19693	Jul 24 15:30 1997	./omdsim/om_de/om_dlg_coda.c	
r--r--r--	14297	Jul 24 15:30 1997	./omdsim/om_de/om_dlg_eds_pds.c	
r--r--r--	3858	Jul 24 15:30 1997	./omdsim/om_de/om_dlg_hdr.c	
r--r--r--	17797	Jul 24 15:30 1997	./omdsim/om_de/om_dlg_scs.c	
r--r--r--	7502	Jul 24 15:30 1997	./omdsim/om_de/om_get_flg.c	
r--r--r--	2960	Jul 24 15:30 1997	./omdsim/om_de/om_unpk_pb5.c	
r--r--r--	1280	Jul 24 15:30 1997	./omdsim/om_de/om_unpk_vcid.c	
r-xr-xr-x	10439	Jul 24 15:30 1997	./omdsim/build_omdsim	
rwxr-xr-x	0	Sep 18 06:58 1997	./omdsim/om_lo/	
rwxr-xr-x	0	Sep 18 06:58 1997	./omdsim/om_re/	
r--r--r--	1520	Jul 24 15:30 1997	./omdsim/om_re/hear.mk	
r--r--r--	4938	Jul 24 15:30 1997	./omdsim/om_re/om_create_ack.c	
r--r--r--	2578	Jul 24 15:30 1997	./omdsim/om_re/om_create_epds_hdr.c	
r--r--r--	3767	Jul 24 15:30 1997	./omdsim/om_re/om_dir_lst_change.c	
r--r--r--	8330	Jul 24 15:30 1997	./omdsim/om_re/om_dir_monitor.c	
r--r--r--	2866	Jul 24 15:30 1997	./omdsim/om_re/om_netrc.c	
r--r--r--	2003	Jul 24 15:30 1997	./omdsim/om_re/om_re.mk	
r--r--r--	5552	Jul 24 15:30 1997	./omdsim/om_re/om_re_ack.c	
r--r--r--	1644	Jul 24 15:30 1997	./omdsim/om_re/om_re_vme.mk	
r--r--r--	7285	Jul 24 15:30 1997	./omdsim/om_re/om_rec_sub.c	
r--r--r--	1573	Jul 24 15:30 1997	./omdsim/om_re/om_rec_sub.mk	
r--r--r--	903	Jul 24 15:30 1997	./omdsim/om_re/om_rec_sub_vme.mk	
r--r--r--	5751	Jul 24 15:30 1997	./omdsim/om_re/om_receiver.c	
r--r--r--	5260	Jul 24 15:30 1997	./omdsim/om_re/om_receiver_stub.c	
r--r--r--	2645	Jul 24 15:30 1997	./omdsim/om_re/xmitter.c	
r--r--r--	1383	Jul 24 15:30 1997	./omdsim/om_re/xmitter.mk	
r--r--r--	2953	Jul 24 15:30 1997	./omdsim/om_re/xmitter_sub.c	
rwxr-xr-x	0	Sep 18 06:58 1997	./omdsim/om_sc/	
r--r--r--	2125	Jul 24 15:30 1997	./omdsim/om_sc/delog.c	
r--r--r--	1127	Jul 24 15:30 1997	./omdsim/om_sc/delog.mk	
r--r--r--	15597	Jul 24 15:30 1997	./omdsim/om_sc/dlg_coda.c	
r--r--r--	1936	Jul 24 15:30 1997	./omdsim/om_sc/dlg_hdr.c	
r--r--r--	5645	Jul 24 15:30 1997	./omdsim/om_sc/get_flg.c	
r--r--r--	2211	Jul 24 15:30 1997	./omdsim/om_sc/om_sc.mk	
r--r--r--	7246	Jul 24 15:30 1997	./omdsim/om_sc/om_sc_exec.c	
r--r--r--	436	Jul 24 15:30 1997	./omdsim/om_sc/om_sc_init.c	
r--r--r--	1908	Jul 24 15:30 1997	./omdsim/om_sc/om_sc_vme.mk	
r--r--r--	2348	Jul 24 15:30 1997	./omdsim/om_sc/om_scheduler.c	
r--r--r--	7237	Jul 24 15:30 1997	./omdsim/om_sc/om_scheduler_stub.c	
r--r--r--	10219	Jul 24 15:30 1997	./omdsim/om_sc/om_scheduler_sub.c	
rwxr-xr-x	0	Sep 18 06:58 1997	./omdsim/om_sm/	
r--r--r--	10539	Jul 24 15:30 1997	./omdsim/om_sm/om_scenario_manager.c	
r--r--r--	4516	Jul 24 15:30 1997	./omdsim/om_sm/om_scenario_manager_stub.c	
r--r--r--	4613	Jul 24 15:30 1997	./omdsim/om_sm/om_scenario_sub.c	

r--r--r--	2237	Jul 24 15:30 1997	./omdsim/om_sm/om_sm.mk
r--r--r--	4123	Jul 24 15:30 1997	./omdsim/om_sm/om_sm_initialize.c
r--r--r--	1007	Jul 24 15:30 1997	./omdsim/om_sm/om_sm_trans.c
r--r--r--	1938	Jul 24 15:30 1997	./omdsim/om_sm/om_sm_vme.mk
rwxr-xr-x	0	Sep 18 06:58 1997	./omdsim/om_tr/
r--r--r--	2571	Jul 24 15:30 1997	./omdsim/om_tr/om_agg_lngth.c
r--r--r--	8522	Jul 24 15:30 1997	./omdsim/om_tr/om_apid_table.c
r--r--r--	5273	Jul 24 15:30 1997	./omdsim/om_tr/om_cnvt_byte.c
r--r--r--	7590	Jul 24 15:30 1997	./omdsim/om_tr/om_cnvt_coda.c
r--r--r--	8585	Jul 24 15:30 1997	./omdsim/om_tr/om_cnvt_coda2.c
r--r--r--	7199	Jul 24 15:30 1997	./omdsim/om_tr/om_cnvt_epds.c
r--r--r--	2655	Jul 24 15:30 1997	./omdsim/om_tr/om_cnvt_flsb.c
r--r--r--	2627	Jul 24 15:30 1997	./omdsim/om_tr/om_cnvt_hdr.c
r--r--r--	3431	Jul 24 15:30 1997	./omdsim/om_tr/om_cnvt_pb5.c
r--r--r--	4704	Jul 24 15:30 1997	./omdsim/om_tr/om_cnvt_rlsb.c
r--r--r--	6953	Jul 24 15:30 1997	./omdsim/om_tr/om_cnvt_scs.c
r--r--r--	3714	Jul 24 15:30 1997	./omdsim/om_tr/om_cnvt_tss.c
r--r--r--	3023	Jul 24 15:30 1997	./omdsim/om_tr/om_cnvt_vcdu.c
r--r--r--	2050	Jul 24 15:30 1997	./omdsim/om_tr/om_get_epds_name.c
r--r--r--	11813	Jul 24 15:30 1997	./omdsim/om_tr/om_get_external.c
r--r--r--	776	Jul 24 15:30 1997	./omdsim/om_tr/om_get_signal.c
r--r--r--	3660	Jul 24 15:30 1997	./omdsim/om_tr/om_gmt.c
r--r--r--	6264	Jul 24 15:30 1997	./omdsim/om_tr/om_hrs_epds_values.c
r--r--r--	8844	Jul 24 15:30 1997	./omdsim/om_tr/om_hrs_trans.c
r--r--r--	2451	Jul 24 15:30 1997	./omdsim/om_tr/om_load_omd.c
r--r--r--	17806	Jul 24 15:30 1997	./omdsim/om_tr/om_lrs_coda_values.c
r--r--r--	12988	Jul 24 15:30 1997	./omdsim/om_tr/om_merge_epds.c
r--r--r--	3290	Jul 24 15:30 1997	./omdsim/om_tr/om_merge_scs_ccsds.c
r--r--r--	1605	Jul 24 15:30 1997	./omdsim/om_tr/om_merge_scs_comm.c
r--r--r--	3920	Jul 24 15:30 1997	./omdsim/om_tr/om_merge_scs_flsb.c
r--r--r--	1990	Jul 24 15:30 1997	./omdsim/om_tr/om_merge_scs_hdr.c
r--r--r--	4752	Jul 24 15:30 1997	./omdsim/om_tr/om_merge_scs_rlsb_gtpp.c
r--r--r--	4326	Jul 24 15:30 1997	./omdsim/om_tr/om_merge_scs_rlsb_vcld.c
rw-----	10125	Sep 18 07:32 1997	./omdsim/om_tr/om_mps_trans.c
r--r--r--	1466	Jul 24 15:30 1997	./omdsim/om_tr/om_open_tcp_client.c
r--r--r--	9046	Jul 24 15:30 1997	./omdsim/om_tr/om_save_coda.c
r--r--r--	3194	Jul 24 15:30 1997	./omdsim/om_tr/om_send_ext.c
r--r--r--	3050	Jul 24 15:30 1997	./omdsim/om_tr/om_send_ftp.c
r--r--r--	4835	Jul 24 15:30 1997	./omdsim/om_tr/om_tr.mk
r--r--r--	6053	Jul 24 15:30 1997	./omdsim/om_tr/om_tr_HRS.mk
r--r--r--	2146	Jul 24 15:30 1997	./omdsim/om_tr/om_tr_init.c
r--r--r--	4538	Jul 24 15:30 1997	./omdsim/om_tr/om_tr_vme.mk
r--r--r--	21982	Jul 24 15:30 1997	./omdsim/om_tr/om_trans_sub.c
r--r--r--	3838	Jul 24 15:30 1997	./omdsim/om_tr/om_transmission_task.c
r--r--r--	6251	Jul 24 15:30 1997	./omdsim/om_tr/om_transmission_task_stub.c
r--r--r--	8388	Jul 24 15:30 1997	./omdsim/om_tr/om_tt_merge.c
r--r--r--	3967	Jul 24 15:30 1997	./omdsim/om_tr/om_tt_merge_scs.c
r--r--r--	3268	Jul 24 15:30 1997	./omdsim/om_tr/om_unpk_pb5.c
r--r--r--	2379	Jul 24 15:30 1997	./omdsim/om_tr/om_update_comm_counters.c
r--r--r--	4232	Jul 24 15:30 1997	./omdsim/om_tr/om_update_counter.c
r--r--r--	4231	Jul 24 15:30 1997	./omdsim/om_tr/om_update_counters.c
r--r--r--	4073	Jul 24 15:30 1997	./omdsim/om_tr/om_update_flsb_counters.c
r--r--r--	2562	Jul 24 15:30 1997	./omdsim/om_tr/om_update_path_counters.c
r--r--r--	11143	Jul 24 15:30 1997	./omdsim/om_tr/om_update_rlsb_counters.c

r--r--r--	2595	Jul 24 15:30 1997	./omdsim/om_tr/om_update_vcd_u_counters.c
r--r--r--	769	Jul 24 15:30 1997	./omdsim/om_tr/om_write_for_ftp.c
rwxr-xr-x	0	Sep 18 06:58 1997	./omdsim/om_ui/
r--r--r--	97797	Jul 24 15:30 1997	./omdsim/om_ui/bxutils.c
r--r--r--	5032	Jul 24 15:30 1997	./omdsim/om_ui/om_ui.mk
r--r--r--	4837	Jul 24 15:30 1997	./omdsim/om_ui/om_ui_vme.mk
r--r--r--	21987	Jul 24 15:30 1997	./omdsim/om_ui/omdsim.help
r--r--r--	3553	Jul 24 15:30 1997	./omdsim/om_ui/ouc_ccsds_vcids_number.c
r--r--r--	4921	Jul 24 15:30 1997	./omdsim/om_ui/ouc_client_socket.c
r--r--r--	2032	Jul 24 15:30 1997	./omdsim/om_ui/ouc_coda_contents.c
r--r--r--	5164	Jul 24 15:30 1997	./omdsim/om_ui/ouc_comm_link.c
r--r--r--	2165	Jul 24 15:30 1997	./omdsim/om_ui/ouc_exit.c
r--r--r--	7677	Jul 24 15:30 1997	./omdsim/om_ui/ouc_load_omd.c
r--r--r--	6158	Jul 24 15:30 1997	./omdsim/om_ui/ouc_load_scn.c
r--r--r--	4183	Jul 24 15:30 1997	./omdsim/om_ui/ouc_log_omd_rcvd.c
r--r--r--	3929	Jul 24 15:30 1997	./omdsim/om_ui/ouc_log_omd_xmted.c
r--r--r--	3043	Jul 24 15:30 1997	./omdsim/om_ui/ouc_mps_socket.c
r--r--r--	6481	Jul 24 15:30 1997	./omdsim/om_ui/ouc_msg_received.c
r--r--r--	8849	Jul 24 15:30 1997	./omdsim/om_ui/ouc_new_omd.c
r--r--r--	3051	Jul 24 15:30 1997	./omdsim/om_ui/ouc_number_ccsds_vcids.c
r--r--r--	3417	Jul 24 15:30 1997	./omdsim/om_ui/ouc_number_flpps.c
r--r--r--	3606	Jul 24 15:30 1997	./omdsim/om_ui/ouc_number_rlpp_vcids.c
r--r--r--	2952	Jul 24 15:30 1997	./omdsim/om_ui/ouc_number_rlpps.c
r--r--r--	5710	Jul 24 15:30 1997	./omdsim/om_ui/ouc_oe_changed_funcs.c
r--r--r--	3943	Jul 24 15:30 1997	./omdsim/om_ui/ouc_oe_exit.c
r--r--r--	3661	Jul 24 15:30 1997	./omdsim/om_ui/ouc_oe_gmh_funcs.c
r--r--r--	7510	Jul 24 15:30 1997	./omdsim/om_ui/ouc_oe_save_funcs.c
r--r--r--	7437	Jul 24 15:30 1997	./omdsim/om_ui/ouc_open_omd_funcs.c
r--r--r--	5959	Jul 24 15:30 1997	./omdsim/om_ui/ouc_open_scn_funcs.c
r--r--r--	4477	Jul 24 15:30 1997	./omdsim/om_ui/ouc_other_ccsds_vcids.c
r--r--r--	4360	Jul 24 15:30 1997	./omdsim/om_ui/ouc_other_rlpp.c
r--r--r--	4994	Jul 24 15:30 1997	./omdsim/om_ui/ouc_other_rlpp_vcids.c
r--r--r--	3398	Jul 24 15:30 1997	./omdsim/om_ui/ouc_pds_eds_changed_funcs.c
r--r--r--	4902	Jul 24 15:30 1997	./omdsim/om_ui/ouc_pds_eds_number_funcs.c
r--r--r--	7988	Jul 24 15:30 1997	./omdsim/om_ui/ouc_pds_eds_other_funcs.c
r--r--r--	5831	Jul 24 15:30 1997	./omdsim/om_ui/ouc_pds_eds_set_funcs.c
r--r--r--	3661	Jul 24 15:30 1997	./omdsim/om_ui/ouc_rlpp_number.c
r--r--r--	32909	Jul 24 15:30 1997	./omdsim/om_ui/oui.uil
r--r--r--	5329	Jul 24 15:30 1997	./omdsim/om_ui/ouc_scenario.c
r--r--r--	4498	Jul 24 15:30 1997	./omdsim/om_ui/ouc_rlpp_vcids_number.c
r--r--r--	3632	Jul 24 15:30 1997	./omdsim/om_ui/ouc_set_ccsds_vcids_funcs.c
r--r--r--	3491	Jul 24 15:30 1997	./omdsim/om_ui/ouc_set_rlpp_funcs.c
r--r--r--	4438	Jul 24 15:30 1997	./omdsim/om_ui/ouc_set_rlpp_vcids_funcs.c
r--r--r--	5961	Jul 24 15:30 1997	./omdsim/om_ui/ouc_transmission.c
r--r--r--	3498	Jul 24 15:30 1997	./omdsim/om_ui/ouc_unload_omd.c
r--r--r--	3444	Jul 24 15:30 1997	./omdsim/om_ui/ouc_unload_scn.c
r--r--r--	6157	Jul 24 15:30 1997	./omdsim/om_ui/ouc_view_omd_log_funcs.c
r--r--r--	5927	Jul 24 15:30 1997	./omdsim/om_ui/ouf_close_comm.c
r--r--r--	4861	Jul 24 15:30 1997	./omdsim/om_ui/ouf_display_ccsds_vcids.c
r--r--r--	13170	Jul 24 15:30 1997	./omdsim/om_ui/ouf_display_coda.c
r--r--r--	3397	Jul 24 15:30 1997	./omdsim/om_ui/ouf_display_flpp.c
r--r--r--	4427	Jul 24 15:30 1997	./omdsim/om_ui/ouf_display_gnd_msg_hdr.c
r--r--r--	2669	Jul 24 15:30 1997	./omdsim/om_ui/ouf_display_omd.c
r--r--r--	3223	Jul 24 15:30 1997	./omdsim/om_ui/ouf_display_omd_log.c

r--r--r--	16566	Jul 24 15:30 1997	./omdsim/om_ui/ouf_display_pds_eds.c
r--r--r--	9097	Jul 24 15:30 1997	./omdsim/om_ui/ouf_display_rlpp.c
r--r--r--	4872	Jul 24 15:30 1997	./omdsim/om_ui/ouf_display_rlpp_vcid.c
r--r--r--	2130	Jul 24 15:30 1997	./omdsim/om_ui/ouf_exit.c
r--r--r--	22365	Jul 24 15:30 1997	./omdsim/om_ui/ouf_get_coda_funcs.c
r--r--r--	4347	Jul 24 15:30 1997	./omdsim/om_ui/ouf_get_counter.c
r--r--r--	3473	Jul 24 15:30 1997	./omdsim/om_ui/ouf_get_gnd_msg_hdr.c
r--r--r--	2090	Jul 24 15:30 1997	./omdsim/om_ui/ouf_get_omd_values.c
r--r--r--	15475	Jul 24 15:30 1997	./omdsim/om_ui/ouf_get_pds_eds.c
r--r--r--	2115	Jul 24 15:30 1997	./omdsim/om_ui/ouf_initialize_params.c
r--r--r--	7285	Jul 24 15:30 1997	./omdsim/om_ui/ouf_open_comm.c
r--r--r--	2315	Jul 24 15:30 1997	./omdsim/om_ui/ouf_read_omd.c
r--r--r--	4091	Jul 24 15:30 1997	./omdsim/om_ui/ouf_reset_activity.c
r--r--r--	4104	Jul 24 15:30 1997	./omdsim/om_ui/ouf_reset_comm_link.c
r--r--r--	3858	Jul 24 15:30 1997	./omdsim/om_ui/ouf_set_counter.c
r--r--r--	2124	Jul 24 15:30 1997	./omdsim/om_ui/ouf_stop_transmission.c
r--r--r--	2156	Jul 24 15:30 1997	./omdsim/om_ui/ouf_terminate_scenario.c
r--r--r--	70267	Jul 24 15:30 1997	./omdsim/om_ui/oui_coda.uil
r--r--r--	42669	Jul 24 15:30 1997	./omdsim/om_ui/oui_creation.c
r--r--r--	78325	Jul 24 15:30 1997	./omdsim/om_ui/oui_coda_creation.c
r--r--r--	8460	Jul 24 15:30 1997	./omdsim/om_ui/oui_main.c
r--r--r--	17400	Jul 24 15:30 1997	./omdsim/om_ui/oui_omd_ed.uil
r--r--r--	20430	Jul 24 15:30 1997	./omdsim/om_ui/oui_omd_ed_creation.c
r--r--r--	42411	Jul 24 15:30 1997	./omdsim/om_ui/oui_pds.uil
r--r--r--	55923	Jul 24 15:30 1997	./omdsim/om_ui/oui_pds_eds_creation.c
r--r--r--	19872	Jul 24 15:30 1997	./omdsim/om_ui/oup_create_omd_ed.c
rwxr-xr-x	0	Sep 18 06:58 1997	./mps/
rwxr-xr-x	0	Sep 18 06:58 1997	./mps/mp_ui/
r--r--r--	97797	Jul 24 15:30 1997	./mps/mp_ui/bxutils.c
r--r--r--	6969	Jul 24 15:30 1997	./mps/mp_ui/mp_ui.mk
r--r--r--	6487	Jul 24 15:30 1997	./mps/mp_ui/mp_ui_vme.mk
r--r--r--	19006	Jul 24 15:30 1997	./mps/mp_ui/mps.help
r--r--r--	7478	Jul 24 15:30 1997	./mps/mp_ui/muc_activity_log_funcs.c
r--r--r--	2166	Jul 24 15:30 1997	./mps/mp_ui/muc_cfg_cmd.c
r--r--r--	5728	Jul 24 15:30 1997	./mps/mp_ui/muc_cfg_cmd_edos_funcs.c
r--r--r--	16114	Jul 24 15:30 1997	./mps/mp_ui/muc_cfg_cmd_sc_funcs.c
r--r--r--	10902	Jul 24 15:30 1997	./mps/mp_ui/muc_cfg_cmd_val_funcs.c
r--r--r--	5969	Jul 24 15:30 1997	./mps/mp_ui/muc_cfg_modeling.c
r--r--r--	12529	Jul 24 15:30 1997	./mps/mp_ui/muc_cfg_pkt_fmt_funcs.c
r--r--r--	2170	Jul 24 15:30 1997	./mps/mp_ui/muc_cfg_tlm.c
r--r--r--	9436	Jul 24 15:30 1997	./mps/mp_ui/muc_cfg_tlm_edos_funcs.c
r--r--r--	12696	Jul 24 15:30 1997	./mps/mp_ui/muc_cfg_tlm_pkt_funcs.c
r--r--r--	22185	Jul 24 15:30 1997	./mps/mp_ui/muc_cfg_tlm_sc_funcs.c
r--r--r--	9947	Jul 24 15:30 1997	./mps/mp_ui/muc_clcw_ctl_funcs.c
r--r--r--	10659	Jul 24 15:31 1997	./mps/mp_ui/muc_create_rb_files.c
r--r--r--	9883	Jul 24 15:31 1997	./mps/mp_ui/muc_data_source_funcs.c
r--r--r--	9172	Jul 24 15:31 1997	./mps/mp_ui/muc_drop_tlm_funcs.c
r--r--r--	5816	Jul 24 15:31 1997	./mps/mp_ui/muc_exit.c
r--r--r--	10382	Jul 24 15:31 1997	./mps/mp_ui/muc_hgio_cfg_funcs.c
r--r--r--	1983	Jul 24 15:31 1997	./mps/mp_ui/muc_log_cmd.c
r--r--r--	10521	Jul 24 15:31 1997	./mps/mp_ui/muc_log_tlm.c
r--r--r--	3616	Jul 24 15:31 1997	./mps/mp_ui/muc_model_act_funcs.c
r--r--r--	9391	Jul 24 15:31 1997	./mps/mp_ui/muc_model_cfg_funcs.c
r--r--r--	2499	Jul 24 15:31 1997	./mps/mp_ui/muc_model_close.c

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r--r--r--	9454	Jul 24 15:31 1997	./mps/mp_ui/muc_model_list_funcs.c
r--r--r--	4687	Jul 24 15:31 1997	./mps/mp_ui/muc_mon_clcw_funcs.c
r--r--r--	9430	Jul 24 15:31 1997	./mps/mp_ui/muc_mon_cmd_status_funcs.c
r--r--r--	5146	Jul 24 15:31 1997	./mps/mp_ui/muc_mon_command_funcs.c
r--r--r--	12247	Jul 24 15:31 1997	./mps/mp_ui/muc_mon_edu_funcs.c
r--r--r--	7584	Jul 24 15:31 1997	./mps/mp_ui/muc_mon_ntwk_status_funcs.c
r--r--r--	12127	Jul 24 15:31 1997	./mps/mp_ui/muc_mon_packet_funcs.c
r--r--r--	3488	Jul 24 15:31 1997	./mps/mp_ui/muc_scenario.c
r--r--r--	12033	Jul 24 15:31 1997	./mps/mp_ui/muc_mon_parameter_funcs.c
r--r--r--	9142	Jul 24 15:31 1997	./mps/mp_ui/muc_mon_tlm_status_funcs.c
r--r--r--	12165	Jul 24 15:31 1997	./mps/mp_ui/muc_mon_vcdi_funcs.c
r--r--r--	5725	Jul 24 15:31 1997	./mps/mp_ui/muc_omd_socket.c
r--r--r--	4988	Jul 24 15:31 1997	./mps/mp_ui/muc_print_funcs.c
r--r--r--	10231	Jul 24 15:31 1997	./mps/mp_ui/muc_proc_config_funcs.c
r--r--r--	7792	Jul 24 15:31 1997	./mps/mp_ui/muc_sc_buffer_funcs.c
r--r--r--	2527	Jul 24 15:31 1997	./mps/mp_ui/muc_scenario_close_CB.c
r--r--r--	1955	Jul 24 15:31 1997	./mps/mp_ui/muc_scenario_close_no_CB.c
r--r--r--	2044	Jul 24 15:31 1997	./mps/mp_ui/muc_scenario_close_ok_CB.c
r--r--r--	2417	Jul 24 15:31 1997	./mps/mp_ui/muc_scenario_create_CB.c
r--r--r--	3542	Jul 24 15:31 1997	./mps/mp_ui/muc_scenario_ok_CB.c
r--r--r--	3017	Jul 24 15:31 1997	./mps/mp_ui/muc_scenario_parse.c
r--r--r--	11399	Jul 24 15:31 1997	./mps/mp_ui/muc_scenario_start_CB.c
r--r--r--	3563	Jul 24 15:31 1997	./mps/mp_ui/muc_scenario_stop_CB.c
r--r--r--	3200	Jul 24 15:31 1997	./mps/mp_ui/muc_scenario_update_elapsed_time_CB.c
r--r--r--	3690	Jul 24 15:31 1997	./mps/mp_ui/muc_set_ntwk_mode.c
r--r--r--	20672	Jul 24 15:31 1997	./mps/mp_ui/muc_set_time.c
r--r--r--	3523	Jul 24 15:31 1997	./mps/mp_ui/muc_sim_mode.c
r--r--r--	19754	Jul 24 15:31 1997	./mps/mp_ui/muc_socket.c
r--r--r--	11348	Jul 24 15:31 1997	./mps/mp_ui/muc_start_tlm.c
r--r--r--	11706	Jul 24 15:31 1997	./mps/mp_ui/muc_stop_tlm.c
r--r--r--	3317	Jul 24 15:31 1997	./mps/mp_ui/muc_user_cmd.c
r--r--r--	6211	Jul 24 15:31 1997	./mps/mp_ui/muc_view_funcs.c
r--r--r--	1713	Jul 24 15:31 1997	./mps/mp_ui/muc_xmit_clcw.c
r--r--r--	2842	Jul 24 15:31 1997	./mps/mp_ui/muf_create_monitor_box.c
r--r--r--	4875	Jul 24 15:31 1997	./mps/mp_ui/muf_display_data.c
r--r--r--	6277	Jul 24 15:31 1997	./mps/mp_ui/muf_init_display.c
r--r--r--	6093	Jul 24 15:31 1997	./mps/mp_ui/muf_init_proc.c
r--r--r--	3201	Jul 24 15:31 1997	./mps/mp_ui/muf_open_socket.c
r--r--r--	8186	Jul 24 15:31 1997	./mps/mp_ui/muf_queue_funcs.c
r--r--r--	14755	Jul 24 15:31 1997	./mps/mp_ui/muf_read_params.c
r--r--r--	6605	Jul 24 15:31 1997	./mps/mp_ui/muf_send_msg.c
r--r--r--	6387	Jul 24 15:31 1997	./mps/mp_ui/muf_set_action.c
r--r--r--	26669	Jul 24 15:31 1997	./mps/mp_ui/muf_show_msg_funcs.c
r--r--r--	11082	Jul 24 15:31 1997	./mps/mp_ui/muf_write_params.c
r--r--r--	14461	Jul 24 15:31 1997	./mps/mp_ui/mui_clcw_ctl.uil
r--r--r--	17102	Jul 24 15:31 1997	./mps/mp_ui/mui_clcw_ctl_creation.c
r--r--r--	28024	Jul 24 15:31 1997	./mps/mp_ui/mui_cmd_cfg.uil
r--r--r--	39072	Jul 24 15:31 1997	./mps/mp_ui/mui_cmd_cfg_creation.c
r--r--r--	21896	Jul 24 15:31 1997	./mps/mp_ui/mui_cmd_status.uil
r--r--r--	28675	Jul 24 15:31 1997	./mps/mp_ui/mui_cmd_status_creation.c
r--r--r--	11043	Jul 24 15:31 1997	./mps/mp_ui/mui_cmd_valid.uil
r--r--r--	11384	Jul 24 15:31 1997	./mps/mp_ui/mui_cmd_valid_creation.c
r--r--r--	11014	Jul 24 15:31 1997	./mps/mp_ui/mui_drop_tlm.uil
r--r--r--	10131	Jul 24 15:31 1997	./mps/mp_ui/mui_drop_tlm_creation.c

r--r--r--	22241	Jul 24 15:31 1997	./mps/mp_ui/mui_hsio_cfg.uil
r--r--r--	29138	Jul 24 15:31 1997	./mps/mp_ui/mui_hsio_cfg_creation.c
r--r--r--	3008	Jul 24 15:31 1997	./mps/mp_ui/mui_init.params
r--r--r--	8769	Jul 24 15:31 1997	./mps/mp_ui/mui_main.c
r--r--r--	47703	Jul 24 15:31 1997	./mps/mp_ui/mui_main.uil
r--r--r--	67246	Jul 24 15:31 1997	./mps/mp_ui/mui_main_creation.c
r--r--r--	19838	Jul 24 15:31 1997	./mps/mp_ui/mui_model.uil
r--r--r--	25893	Jul 24 15:31 1997	./mps/mp_ui/mui_model_creation.c
r--r--r--	10887	Jul 24 15:31 1997	./mps/mp_ui/mui_mon_edu.uil
r--r--r--	10036	Jul 24 15:31 1997	./mps/mp_ui/mui_mon_edu_creation.c
r--r--r--	10094	Jul 24 15:31 1997	./mps/mp_ui/mui_mon_parm.uil
r--r--r--	10054	Jul 24 15:31 1997	./mps/mp_ui/mui_mon_parm_creation.c
r--r--r--	10974	Jul 24 15:31 1997	./mps/mp_ui/mui_mon_pkt.uil
r--r--r--	10174	Jul 24 15:31 1997	./mps/mp_ui/mui_mon_pkt_creation.c
r--r--r--	10927	Jul 24 15:31 1997	./mps/mp_ui/mui_mon_vcd.uil
r--r--r--	10124	Jul 24 15:31 1997	./mps/mp_ui/mui_mon_vcd_creation.c
r--r--r--	9323	Jul 24 15:31 1997	./mps/mp_ui/mui_monitor.uil
r--r--r--	8412	Jul 24 15:31 1997	./mps/mp_ui/mui_monitor_creation.c
r--r--r--	36280	Jul 24 15:31 1997	./mps/mp_ui/mui_ntwk_status.uil
r--r--r--	39404	Jul 24 15:31 1997	./mps/mp_ui/mui_ntwk_status_creation.c
r--r--r--	22053	Jul 24 15:31 1997	./mps/mp_ui/mui_pkt_fmt_cfg.uil
r--r--r--	29125	Jul 24 15:31 1997	./mps/mp_ui/mui_pkt_fmt_cfg_creation.c
r--r--r--	12308	Jul 24 15:31 1997	./mps/mp_ui/mui_sc_buffer.uil
r--r--r--	13910	Jul 24 15:31 1997	./mps/mp_ui/mui_sc_buffer_creation.c
r--r--r--	16368	Jul 24 15:31 1997	./mps/mp_ui/mui_scenario.uil
r--r--r--	18382	Jul 24 15:31 1997	./mps/mp_ui/mui_scenario_creation.c
r--r--r--	19605	Jul 24 15:31 1997	./mps/mp_ui/mui_set_time.uil
r--r--r--	19529	Jul 24 15:31 1997	./mps/mp_ui/mui_set_time_creation.c
r--r--r--	53060	Jul 24 15:31 1997	./mps/mp_ui/mui_tlm_cfg.uil
r--r--r--	65414	Jul 24 15:31 1997	./mps/mp_ui/mui_tlm_cfg_creation.c
r--r--r--	17773	Jul 24 15:31 1997	./mps/mp_ui/mui_tlm_pkt.uil
r--r--r--	22686	Jul 24 15:31 1997	./mps/mp_ui/mui_tlm_pkt_creation.c
r--r--r--	14367	Jul 24 15:31 1997	./mps/mp_ui/mui_tlm_status.uil
r--r--r--	16235	Jul 24 15:31 1997	./mps/mp_ui/mui_tlm_status_creation.c
r--r--r--	273	Jul 24 15:31 1997	./mps/mp_ui/solar.scn
r-xr-xr-x	3340	Jul 24 15:30 1997	./mps/build_mps
r--r--r--	2477	Jul 24 15:30 1997	./mps/mps.app_defaults
rwxr-xr-x	0	Sep 18 06:58 1997	./mps/mp_client/
r--r--r--	13268	Jul 24 15:31 1997	./mps/mp_client/mps_client.c
r--r--r--	1039	Jul 24 15:31 1997	./mps/mp_client/mps_client.mk
r--r--r--	786	Jul 24 15:31 1997	./mps/mp_client/mps_client_vme.mk
rw-r--r--	1469377	Sep 19 11:21 1997	MPS_1.3.0.tar.Z

Attachment K - ETS Documentation References

The following change information is applicable to documentation references used by MPS Release 1.3.0.

<u>Document</u>	<u>Location</u>
--, User's Guide for ETS Multimode Portable Simulator, Release 1.2.0, July 1997 (red-lined for Release 1.3.0 changes)	6

Location Legend:

<u>No.</u>	<u>Designation</u>
6	Draft document GSFC Building 32, Room C210, and GSFC Building 25, Room N155

Attachment L - Mission Systems Configuration Management Form

This attachment contains the completed Mission Systems Configuration Management (MSCM) form for the delivery of the MPS Release 1.3.0.

Mission Systems Configuration Management Form

<u>1. ORIGINATOR</u> Estelle Noone	<u>2. ORGANIZATION</u> CSC	<u>3. PHONE</u> (301)794-1305	<u>4. E-MAIL ADDRESS</u> enoone@cscmail.csc.com
<u>5. ELEMENT</u> ETS (HRS, LRS, MPS)		<u>6. INSTALLATION PRIORITY</u> Routine	<u>7. TRACKING NUMBER</u> (Assigned by CM Office)
<u>8. SOURCE CHANGE REQUEST(S):</u> ETS DRB approved MPS release for SMO DR closure.		<u>9. APPROVALS</u>	
		Element Manager _____ / _____	_____ / _____
		Flight Ops Director _____ / _____	_____ / _____
		Operations Manager _____ / _____	_____ / _____
<u>10. DELIVERED SYSTEM</u> (Check all that apply)			
	Name	Version	Media Identification
<input type="checkbox"/> Hardware	_____	_____	_____
<input checked="" type="checkbox"/> Software	MPS	R1.3.0	4 mm DAT & Four 3.5" Diskettes
<input type="checkbox"/> Database	_____	_____	_____
<input checked="" type="checkbox"/> Documentation:	_____	_____	_____
	MPS Delivery Package	n/a	3.5" Diskette
	_____	_____	_____
	_____	_____	_____
<input type="checkbox"/> Other	_____	_____	_____
<u>11. CHANGE DESCRIPTION</u>			
MPS Release 1.3.0 closes the list of SMO DRs identified in the attached delivery package. _____ _____			
<u>12. ATTACHMENT(S):</u> Check if YES <input checked="" type="checkbox"/>			
Description: MPS Release 1.3.0 delivery package (cover letter with attachments) dated 9/19/97 _____ _____			
<u>13. CM OFFICE USE</u>			
	Location (Bldg/Room)	Slot location(s)	
Hardware	_____ / _____	_____	
Media	_____ / _____	_____	
Documentation	_____ / _____	_____	
Installation date	_____ / _____	CM Office Signature _____	

Form MSCM (970327)